4th EDITION 50,000 LISTINGS

1981 THE 'TOP SECRET'

REGISTRY OF U.S. GOVERNMENT RADIO FREQUENCIES

R 9-8-81

BY TOM KNEITEL, K2AES

THE ULTIMATE SCANNER DIRECTORY!

FBI - SECRET SERVICE
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& MORE!

THE 'TOP SECRET' REGISTRY OF U.S. GOVERNMENT RADIO FREQUENCIES

BY TOM KNEITEL, K2AES

CRB RESEARCH
P.O. Box 56, Commack, N.Y. 11725

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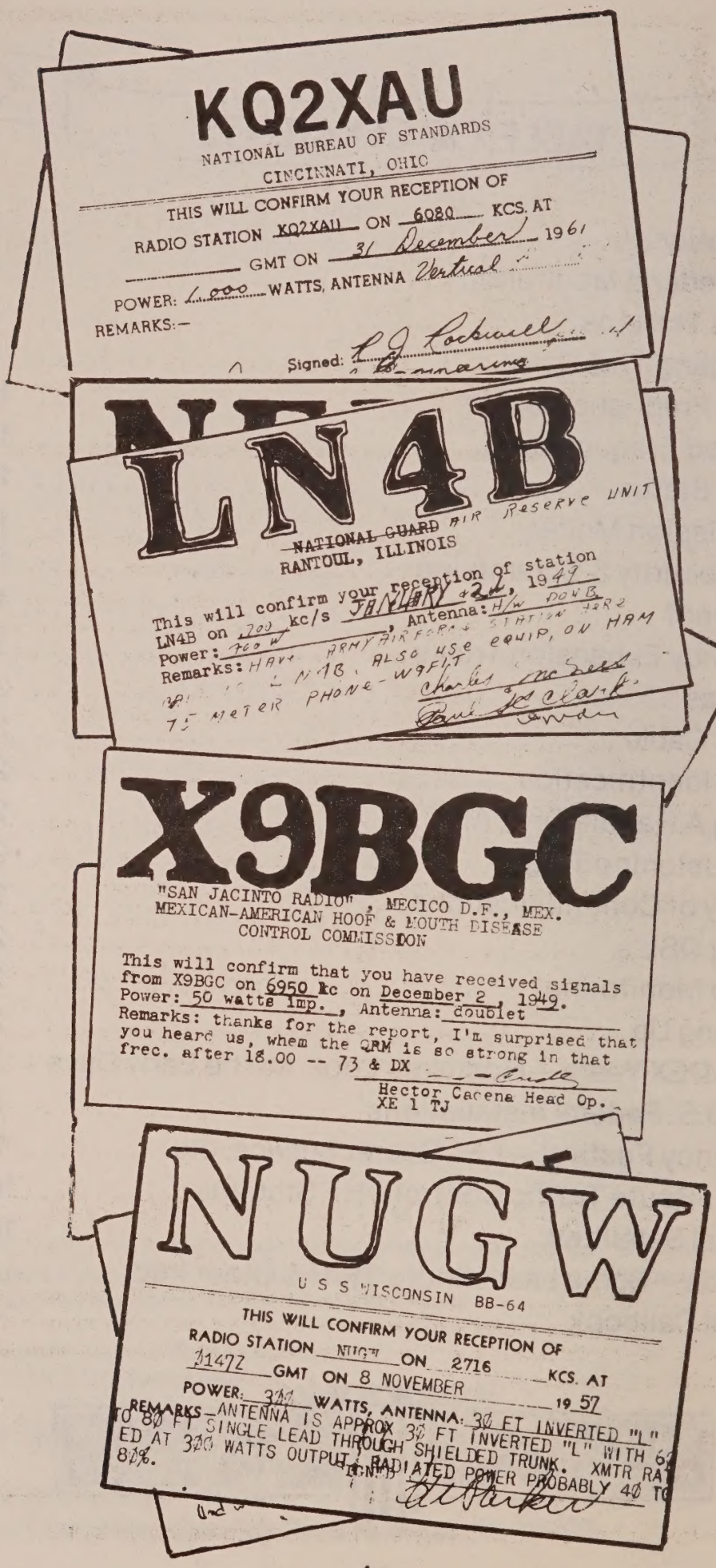


KQ2XAU

NATIONAL BUREAU OF STANDARDS
CINCINNATI, OHIO

THIS WILL CONFIRM YOUR RECEPTION OF
RADIO STATION KQ2XAU ON 6080 KCS. AT
GMT ON 31 December 1961
POWER: 1,000 WATTS, ANTENNA Vertical
REMARKS:—

Signed: R. J. Rockwell

LN4B

~~NATIONAL GUARD~~ AIR RESERVE UNIT
RANTOUL, ILLINOIS

This will confirm your reception of station
LN4B on 700 kc/s JANUARY 22, 1949
Power: 700 W, Antenna: H/W DOUB.
Remarks: HAVE ARMY AIR FORCE STATION HERE
CALL IS LN4B. ALSO USE EQUIP, ON HAM
75 METER PHONE-W9FIT

Charles McNeese
Paul J. Clark

X9BGC

"SAN JACINTO RADIO", MECICO D.F., MEX.
MEXICAN-AMERICAN HOOF & MOUTH DISEASE
CONTROL COMMISSION

This will confirm that you have received signals
from X9BGC on 6950 kc on December 2, 1949.
Power: 50 watts imp., Antenna: doublet
Remarks: thanks for the report, I'm surprised that
you heard us, whem the QRM is so strong in that
frec. after 18.00 -- 73 & DX

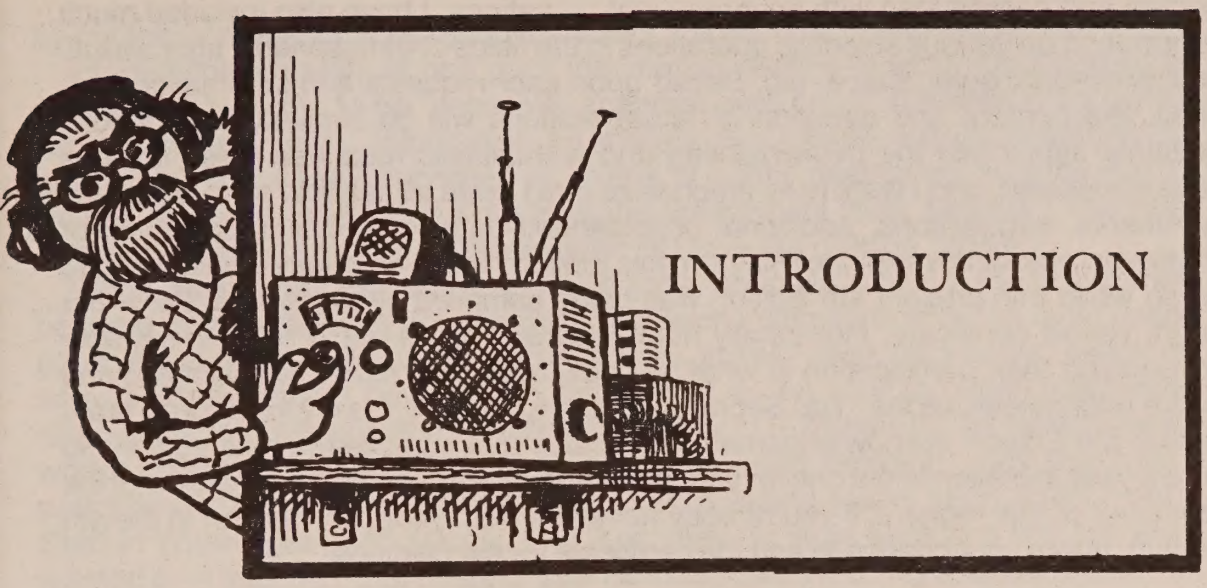
Hector Cacena Head Op.
XE 1 TJ

NUGW

U S S WISCONSIN BB-64

THIS WILL CONFIRM YOUR RECEPTION OF
RADIO STATION NUGW ON 2716 KCS. AT
Ø147Z GMT ON 8 NOVEMBER 1957
POWER: 3ØØ WATTS, ANTENNA: 3Ø FT INVERTED "L"
REMARKS—ANTENNA IS APPROX 3Ø FT INVERTED "L" WITH 6Ø
TO 8Ø FT SINGLE LEAD THROUGH SHIELDED TRUNK. XMTR RAT
ED AT 3ØØ WATTS OUTPUT, RADIATED POWER PROBABLY 4Ø TO
8Ø%.

SIGNED
[illegible]



INTRODUCTION

With each succeeding edition of this registry we find ourselves honing our monitoring efforts and information to a finer and sharper edge. This publication has met with far wider demand and user response than I had imagined, with requests for copies coming from all leading equipment manufacturers, many dealers, and from numerous local, state, and federal agencies; when you consider that the original intent of the first edition (back in 1978) was primarily to provide data to serious scanner users, you'd probably agree that this registry has come a long way. Nevertheless, scanner users and enthusiasts remain the inspiration for and major contributory source of information to this Registry—and it is still my basic intention that this registry will be a useful and informative source of data for advanced hobbyists and now also for professional communications interests.

If one were to compare the three earlier editions against this 4th Edition it will be readily seen that we are able to present a considerable amount of new, revised, corrected, and expanded data as each edition goes into publication, and we have also managed to expand our horizons as we go along, for instance, in addition to straight federal listings in this new edition, I have (in response to many requests from monitors) included frequency data relating to the operations of leading commercial operations (research/engineering/manufacturing) in the fields of avionics, aerospace, ordinance (including explosives, ammunition, firearms, missiles), ship building, aircraft, etc., inasmuch as the operations of these companies is closely con-

ACTIVE PARTICIPANT IN THE:

"TOP SECRET" MONITORING PROJECT

HANK STEVENS is hereby acknowledged as an active participant in the above monitoring project and has contributed vital communications data for inclusion in the 4th Edition of the "Top Secret" Registry of U.S. Government Radio Frequencies, by Tom Kneitel.

Certificate No.: 4999 Dated: AUGUST 15, 1981 Per: Tom Kneitel

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Information contributors all received certificates like this one.

nected and coordinated with governmental operations. I have also included much information on various scientific operations in the fields of atmospheric, agricultural, environmental, outer space, etc. Based upon user requests and information supplied, the content and direction of future editions will be similarly expanded. I certainly appreciate the overwhelming and enthusiastic response these editions have generated, and I want to re-emphasize that I invite all users to send along any comments, suggestions, additional or expanded data, corrections, deletions, or whatever regarding any of the listings in this Edition. Those who were kind enough to do so while this present 4th Edition was being compiled all received a 3½ × 8½ bright yellow certificate, individually numbered and made out in their name, acknowledging their participation in what has now become a rather wide ranging and active effort known as the *"Top Secret" Monitoring Project.* It is my intention to grant similar 5th Edition acknowledgement certificates as I compile the next edition, so here's your invitation to get one for yourself! Address your reports to me in care of the Publisher of this registry. If you already have one from your participation in the 4th Edition, now's your chance to add the certificate for the next one!

FEDERAL MONITORING

Anybody who has had any experience with scanners soon realizes that, even if they live in a large metropolitan area, there is really only *so* much of interest to monitor on the equipment, and even the police and fire calls *eventually* start to become repetitive enough to cause some restlessness and a desire to expand one's interests. Modern scanners offer as much as a 50-channel potential, so there's plenty of chance to start edging past the garden variety police and fire calls and into the far-more-exciting world of federal agency operations. Most scanner owners don't even realize that at least *half* of the frequency space covered by their scanners is reserved for the exclusive use of military and civilian agencies of the federal government. When I became interested in pursuing these stations I found that it generally meant groping around in the dark and semi-dark because of the monumental lack of *hard* data available to the serious listener. While listings of municipal, county, and even state communications systems have been readily available for several years now, data on the more interesting federal agencies has remained either in the twilight zone or in the darkness, despite the increased interest by the public in hearing what those who are in the public's service are spending their time doing—especially since so much of it is absolutely fascinating, and frequently a little mind blowing. Of course, the popularity of scanners has only spurred on this interest. In 1980 alone, more than 1-million scanners were sold—and that was a 15% increase over those sold in 1979!

For my own part in all of this, I have been digging around the various frequency bands for about 35 years now, starting out as a kid with a Hallicrafters S-40 which opened the doors to part of the VHF "low band."

By about 1950, I had converted a piece of military surplus equipment to let me tune in on the VHF "high band" goings-on. While there were a few pieces of commercially available tunable receiving equipment available in those days, it would be 18 years into the future before scanners would be shelf-ready items, and years after that before they became sophisticated.

From my starting point in the late 1940's, I've watched the stations edge further and further upwards in frequency, keeping pace with techonology. What was operational on 2 MHz and experimental on 150 MHz then is now operational on 50 MHz and experimental on microwaves! Through the years, I've been keeping detailed records on what these stations have been up to, their shifting and changing bands and frequencies, their expanded facilities. This registry reflects the data in my private files, greatly amplified by enthusiastically rendered additional information submitted

by my fellow monitors. It represents the very first effort of its kind in this field.

Interestingly enough, at one point information relating to what might (today) be considered by some to be "sensitive" agencies, was not at all tucked away behind various secrecy veils. Information on military and civilian agency governmental operations was widely published in scores of hobby magazines such as RADIO INDEX as it was received directly from the government itself. Secrecy? The FBI's communications station at its Washington HQ bore the callsign "WFBI"!

World War II brought about a considerably changed attitude, the government became more restrained about passing out such information about its radio operations with quite so high a profile. Nevertheless, in 1947 I was (as a naive 14-year old who probably should have known better than to try) able to obtain a complete directory of the callsigns and locations of all of the U.S. military forces throughout the world, complete with updated correction pages—and including every ship from a patrol boat to a battleship. I accomplished this by writing a letter to the Joint Chiefs of Staff in Washington and asking for it! Yes, they did write back and first ask why I wanted it—I told them that I liked to listen to these stations on my shortwave receiver. Within days a large carton arrived containing more information than I had ever thought existed.

After I sorted through all of this paperwork, I decided to carry on with my efforts, so in 1948 I dashed off a quick note to the FBI and asked if they would be kind enough to type up a listing of their stations and frequencies and send it along to me at their earliest convenience. I received a prompt and courteous letter from J. Edgar Hoover, dated Nov. 23, 1948, who made no bones about informing me, "Although I would like to be of service, information such as you have requested is confidential and not available for distribution." Well, it seemed like a *great* idea at the time.

What had happened was the cold war and the general paranoia which led up to the so-called McCarthy era. As all of this began to coalesce, the government decided to become less generous with information relating to what it was doing, and on what frequencies the more interesting doings were—er—*doing*! Well, at least they were not particularly interested in sending it to Tommy with his 8-tube superhet.

At the present time, only certain information relating to federal stations is available to the general public directly from the government, and that is by the grace of the Freedom of Information Act. This consists of listings of so-called *un*classified stations. A printout of this data was obtained by Robert Grove and Published by him under the title "Federal Frequency Directory 2 to 420 MHz." Classified and/or "sensitive" information, it can be quickly seen, is *not* part of the information the government is going to part with under the Freedom of Information (or any other) "act," nevertheless, Grove's printout is an excellent reference guide to have if you're monitoring governmental frequencies, and a good companion publication to my registry.

Here's the thing, while *all* stations licensed by the FCC are a matter of full public record, federal stations aren't licensed by the FCC and therefore do not appear in *any* FCC records. Federal stations are *all* authorized under the aegis and jurisdiction of several agencies bearing curiously nitialled titles such as MCEB, IRAC, also the Dept. of Defense. Some of the information these agencies have is a reasonably confusing shambles, oft-times outdated, incorrectly entered in their records, showing a considerable amount of duplication—and error—and conflicting data. Furthermore, what isn't missing due to error may well be part of the information which some agencies of the government don't even want other agencies to have! To further compound the situation, those in the field who actually operate the stations may only use (or even know that they have available for use) possibly 1 to 3 of the bountiful harvest of frequencies which, on the surface, appear to be established and approved for their use! There are agencies which appear to be totally unfamiliar with the extent

and nature of their own operations!

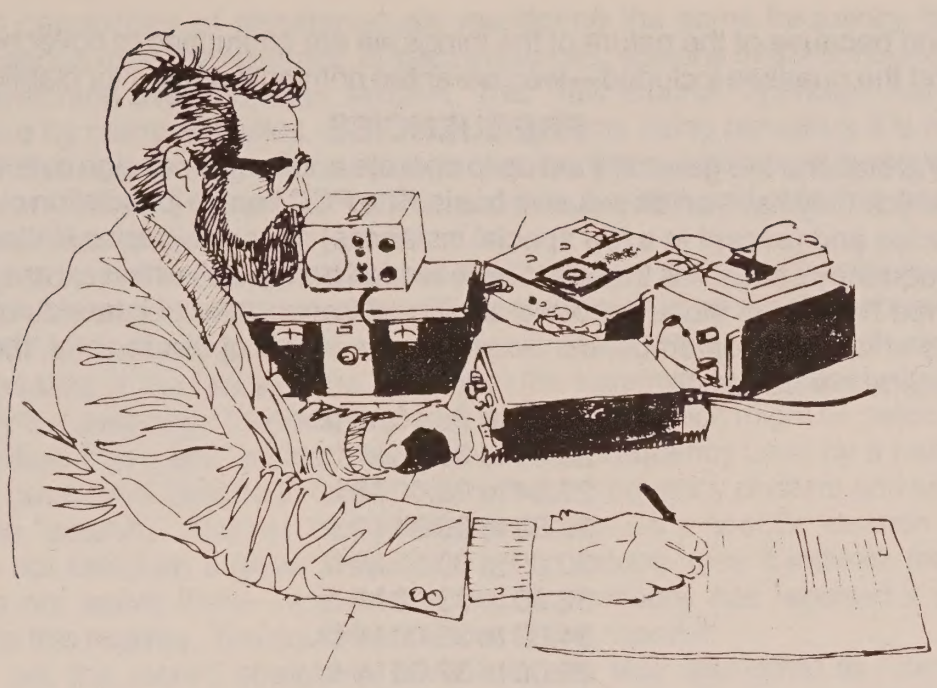
A perfect example of this was contained in a letter to me from the Denver Service Center of the National Park Service. They advised me that while approximately 200 NPS facilities "have a radio system, each of which is designated as an autonomous entity and for which frequencies were assigned—without any attempt to standardize the frequencies. The record of our assignment is maintained by IRAC—we do not maintain a count of these—but it is probable that a computer list of callsigns for the NPS might show in excess of 1000 radio call signs assigned." I might add that this letter was sent to me by the Denver office because when I wrote the Washington office about securing this information, Washington obviously didn't have the information, and thought Denver did. So they requested that Denver respond to me! This incredible letter was signed by the Communications Engineer of the NPS!

Not long ago I had occasion to speak informally with the communications honcho at a particular federal facility who squawked about being short of frequencies upon which to operate. When I told him that I was aware that his facility was actually authorized to operate on maybe a dozen frequencies he was practically in shock—he had been totally unaware of this happy cornucopia. He wrote to his "main office" for clarification but was unable to obtain any clear cut answer after several attempts; eventually he simply took it upon himself to start using two of those frequencies of which I had made him aware. That was over a year ago and so far as I know he's been using them without any problems. That's where things "are at."

WHERE'S THE LINE?

The line which divides federal and non-federal operations is fuzzy in many instances. Some non-governmental agencies have been specially authorized to operate on what might otherwise be frequencies used only by federal agencies. Some of these stations include certain state fire control units and law enforcement agencies. Even government contractors have gotten permission to operate on federal frequencies in order to coordinate their operations with various federal agencies for which they are designing, testing, or producing equipment. An example of this would be some of the frequencies authorized to Sikorsky Aircraft in Connecticut for flight tests of helicopters (these are listed for the first time in this edition of the Registry, along with similarly authorized frequencies from other federal contractors). An example of civilian law enforcement agencies on federal frequencies would be the Hudspeth County Sheriff Station in Sierra Blanca, Texas, which can operate on 168.825, 162.925, 163.625, and 163.675, presumably to communicate with the Border Patrol units in that area.

On the other hand, sometimes federal stations pop up on frequencies which are primarily used for "civilian" station operations, such as the FCC, or Coast Guard or National Park Service on CB. The Dept. of Justice has mobile units which can operate within numerous police radio systems, while many federal agencies utilize radios connected to Ma Bell's Mobile Telephone Operator system. Likewise federal agencies which operate large and small vessels are set up on all frequencies set aside for maritime VHF-FM; just as agencies using fixed-wing aircraft and helicopters have those units operating on all necessary VHF aero frequencies required for air safety, navigation, and traffic control. In addition, there are frequencies used for communications between stations involved in oil-spill cleanups—these would include both commercial and federal units. I have used my own personal experience and evaluation to offer you a well rounded and realistic selection of active federal systems, although I have generally have not done much here with nominally non-government system frequencies which federal stations may secondarily utilize.



ASSEMBLING THE DATA

Aside from my own personal monitoring frequency measurements from various locations, and the excellent input from other monitors, I've been fortunate in being able to swap notes with several active communications specialists who share my interest in this field; these people come from widely divergent backgrounds and a wide geographic area. One is a communications engineer, one a mechanic, one a pro athlete, another a physician, and one is even a popular TV personality—there's also a college student and several others. I've also been able to compare this compiled data against other information, including that obtained from the International Telecommunications Union and other similar agencies here and abroad. I've also checked through the frequency files of Z-Tech Enterprtises (P.O. Box 70, Hauppauge, N.Y. 11787), the leading supplier of scanner crystals covering government frequencies. Most importantly, I've made plenty of "educated guesses," although my readers have pointed out several instances where my guesses were poorly educated.

I would point out that there are certainly many frequencies used by federal agencies which aren't (yet) listed in this book, and there is no doubt that there are some incorrect agencies listed for some frequencies shown. With additional data input from readers we can continue to sharpen our focus and further increase the accuracy of the available information.

Your attention is especially directed towards the fact that some frequencies listed herein don't show any agency designator at all. This indicates that while activity has been noted, it hasn't been sufficient to offer even a guess as to which agency or agencies might be operating there. If you hear any activity on these frequencies you can take your own guess.

I might add that due to the large amount of data which has poured in during the past year, it is not unexpected that bits and pieces of directly conflicting data appear. I am fully aware that there are several instances of this, so if you are one of the many people who go through these registries line-by-line to "catch" such items, rather than writing to tell me that you "got me," I would much prefer your offering any opinion you might have on clearing up the conflicting information.

In general, *everything* in this registry should be viewed with all of these factors in

mind, and because of the nature of the things we are attempting to cover here—the gaps and the guesses included—we guarantee nothing but hope for clarification.

FREQUENCIES

Federal stations are generally set up to operate and have free reign over their own bands which they have on an exlusive basis. The FCC has no jurisdiction over these frequencies and (except in a few special instances) does not license stations within these frequency bands. It is these exlusive federal bands with which we are primarily concerned here, plus those assorted additional frequencies of interest outside the confines of those reserved bands. So, within the scope of this registry, the "exclusive" federal bands are:

25.33 to 26.10 MHz
26.48 to 26.95 MHz
27.54 to 28.00 MHz
29.89 to 29.91 MHz
30.00 to 30.51 MHz
32.00 to 33.00 MHz
34.00 to 35.00 MHz
36.00 to 37.00 MHz
38.00 to 39.00 MHz
40.00 to 42.00 MHz
46.60 to 47.00 MHz
49.66 to 50.00 MHz
136.00 to 144.00 MHz
148.00 to 150.80 MHz
157.04 to 157.19 MHz
162.02 to 173.20 MHz
173.40 to 174.00 MHz
216.00 to 220.00 MHz
225.00 to 420.00 MHz

Monitors owning scanners having a "search" feature might wish to select those bands from the above listing which lie within the capabilities of their equipment and see if the search feature can detect additional frequencies or expand on the information in this registry.

Let me point out, unlike commerical FCC-licensed type stations which are assigned one frequency and are relegated to remain there throughout the term of their license, many federal agencies (especially security-type agencies) tend to shift and change on a somewhat cyclic basis from within the "stable" of frequencies available for the agency's use. Sometimes one frequency will be vacated for an extended period of time, only to be placed back in use at some later date; and naturally, larger metro areas will find a given agency utilizing far more frequencies than that same agency's facility in a smaller community.

Certain agencies are important enough to command the exclusive of their own frequencies nationally, while other agencies are relegated to sharing with all manner of assorted bed-partners. Some multi-faceted government departments have also been known to shift frequencies around on an inter-departmental basis. For example, at one time the Immigration office in New York City operated on 167.30; later they moved to other channels and another agency (FBI) appeared on the frequency.

Some frequencies shown are used by repeaters, and (where possible) information is also provided relating to which frequency is being repeated (i.e. Rpts 172.80). Repeater input frequencies, when known, are indicated (i.e. Inpt to 167.05).

Many agencies which use repeaters have the ability to have their mobile and hand-held units transceive in the simplex mode on the repeater output frequency, thereby bypassing the repeater for "direct" short distance communications while still

having the capabilities of simultaneously monitoring the same frequency for any communications from the repeater. In such instances, stations might announce that they are switching over to F-2 or simplex. This "talk around" operation has been noted in use by many agencies. Generally, in systems using repeaters it is necessary to monitor *only* the repeater *output* frequency; there is little point in monitoring the input (or "talk-in") frequency unless you are a purist and trying to see how sensitive your equipment is.

It is apparent that some agencies have the majority of their frequencies bunched up in little clusters scattered throughout the spectrum; such as the FBI groupings at 163 and 167 MHz. Among the technical considerations which make such arrangements appealing is the fact that the loading of the transmitting antenna will remain reasonably flat over any of several adjacent frequencies which might be selected for use. Therefore if you are looking for an "unknown" frequency used by a particular agency, a good bet would be to locate one of these frequency clusters and set your scanner on "search." And don't forget that just because a specific location for an agency is not listed on a given frequency, by no means does it indicate that that location is not active there—it indicates only that nobody has reported it yet for inclusion in this registry. *You* could be the one to first report it!

Just to set the record straight, I haven't in any way attempted to "cleanse," "censor," "purge," or otherwise "sanitize" or omit from this registry any listings at all under any (perhaps) insolent assumption on my part that I might somehow be qualified to determine which frequencies you should not be able to listen to on your own scanner, or to decide which information you should not have at your disposal. Any person using easily available commercial or military surplus equipment can tune in on and take frequency measurements on every single frequency listed herein, despite the fact that the government has elected not to divulge much of this information to the public.

FRACTURED FREQUENCIES

My incoming mail reveals that it is a continually vexing aspect of federal frequencies that there is a tendency for many of them to be established on what might be termed "fractional frequencies." That is to say that for some totally obscure, arbitrary and inconsequential reason, the center of the station's frequency does not come out exactly on a "complete" frequency; instead it ends up on a *half*-kHz, like 165.1875 MHz, which is not only ½-kHz between 165.187 and 165.188 MHz, but also 2½ kHz away from either of the nearest two frequencies which can be selected on a programmable scanner—165.185 or 165.19. Despite my previous revelations of listings to the nearest full kHz for such stations, accompanied by an explanation to the effect that one can select for programming *either* of the two nearest frequencies in order to achieve complete reception of such a frequency, it is still a matter which bends many people out of shape. In this edition I have not only cut the Gordian knot, I have surgically excised the problem numbers and (in almost all listings) just rounded off any *fractured* frequencies to the nearest scanner programming frequency *below* the actual out-of-kilter split frequency. This saves lots of confusion, avoids presenting you with bizarre looking frequencies, and, ultimately, it just gives you the same frequency you'd end up punching into your scanner anyway in order to tune the station you want to hear. Reception will be virtually identical to any tunable receiver set 2½ kHz higher to the "exact" frequency—this because of the bandwidth of FM signals. Goodbye 165.1875, hello 165.185!

(As a point of interest and footnote to these comments, the frequency 165.1875 MHz was used during tests of the coverage distance and efficiency of concealed body transmitters to be worn under the clothing of federal agents. These tests were

reported in the federal publication entitled "Electronic Eavesdropping Techniques & Equipment," prepared for the U.S. Department of Justice. The units tested had 1-watt and 250 miliwatt nominal RF output. Other frequencies used in these tests were in the regular commercial VHF band and were 151.625 and 159.20 MHz.)

One more thing while we're on the subject of understanding how frequencies are written out in this registry. In previous editions I was a stickler for writing out all frequencies to a full 3-places to the right of the decimal point, even if the frequency were located at a 100 kHz point—so a frequency such as 123.1 MHz was written out as 123.100 in order to keep all listings throughout the spectrum uniform. In this edition I have again done some slicing with the hope of eliminating confusion. In *most* instances I show the frequencies in the form which I feel is in keeping with the most popular method of depicting them for each of the various bands in which they are located. What this essentially means is that the aero frequency 123.1 is shown to only 1 place beyond the decimal point. That's the way aero channels are usually written. The VHF marine frequency 156.80 (which is also at a 100 kHz point) shows 2 places past the decimal point because that's the way frequencies are normally written for that segment of frequencies. For the record, 123.1 *could* also be written out as 123.10, or 123.000; while 156.80 could be written out 156.8 or 156.800—without changing the frequency values.

ACTIVITY STATUS

As I mentioned, there is a bit of switching around noted—musical chairs so to speak—in connection with these frequencies as used by several agencies. There is no way to actually guarantee that any particular frequency shown will be in current use at any given location, or in areas where it is in use, that it is used heavily, infrequently, or only on some special occasional purposes.

Some armed forces frequencies are held in reserve use for use during military activities and are probably not regularly used during peacetime, although I have heard normally silent frequencies spring into life when equipment was being checked out for "ready status." That being the case, no frequency can be said to be "dead."

TRANSMISSION MODES

The types of transmissions you are liable to hear on these frequencies is widely varied. In addition to voice transmissions (which predominate), there are small segments of bands used for data transmissions (such as from radiosondes and geological systems)—this would include selected frequencies between 169 and 174 MHz, and all transmissions from 216 to 220 MHz, as well as 400 to 405.975 MHz.

Below 30 MHz you could encounter AM, FM, or CW, but most operations are SSB. Above 30 MHz the mode of choice is FM, however the major exceptions to this are the aeronautical transmissions to be heard from 118 to 136 and 225 to 400 MHz—these are all AM.

Some satellite operational channels have voice repeater links (those in the 225 to 400 MHz military aeronautical band use FM even though regular aircraft traffic in this band is AM). Much satellite traffic consists of data transmissions or various other non-voice operations including slow-scan TV. These will make little sense to the casual listener. Data and similar non-voice transmissions do not normally issue forth on a continuous basis from satellites. The usual practice is for an associated ground *command station* to send out a *trigger signal* at a specified time as the "bird" starts to come into communications range of the ground station. This causes the satellite to release all of its stored data in a relatively short burst which must be completed before it zooms out of range of the ground station.

Satellite reception is greatly enhanced by the use of specialized antennas. These

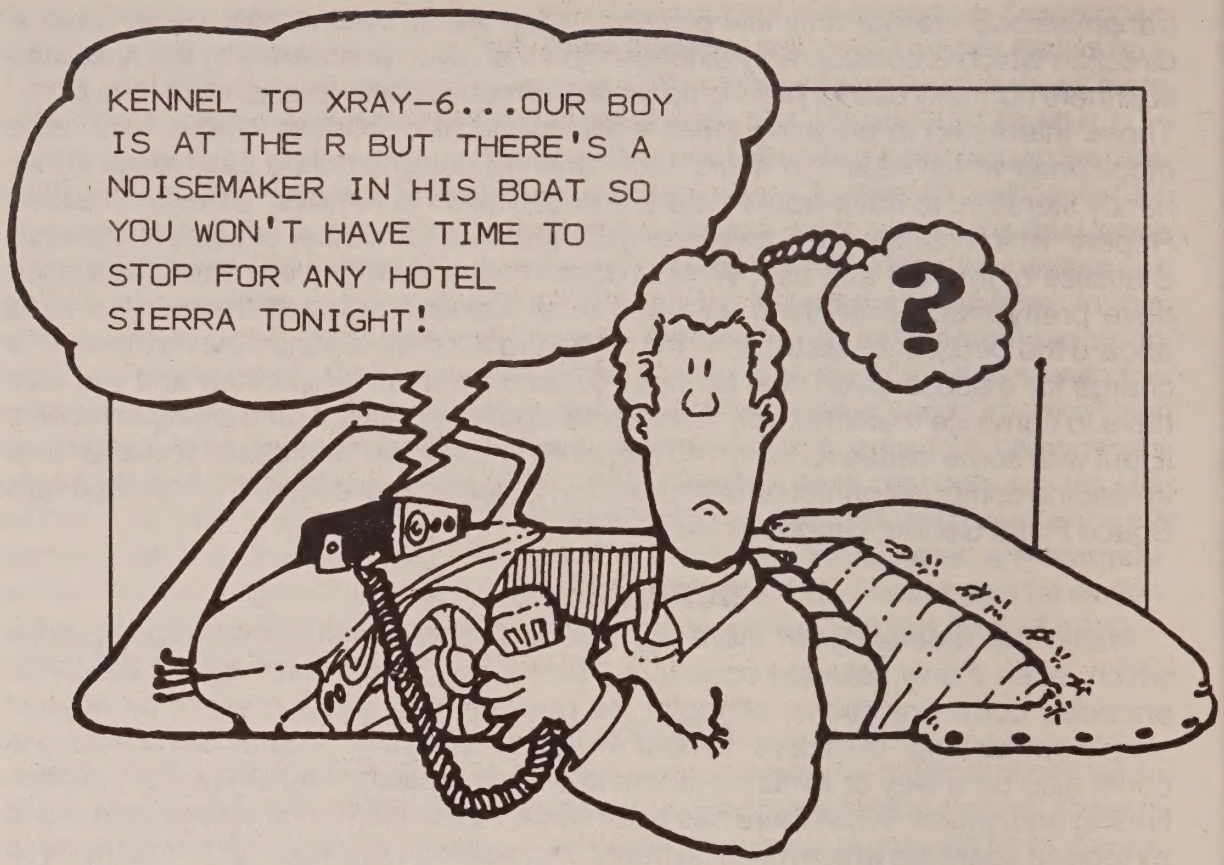
transmissions are not only low powered, they are arriving at your station from a direction which is considerably different than that given preference by the antennas scanners normally use for picking up base and mobile stations located on *terra firma*. Those interested in pursuing these stations should check out various ham radio magazines which have run many such antenna designs during past years. Other handy literature to have would include a subscription to NASA's "Satellite Situation Report" which comes out 6 times per year and lists all manner of satellite tracking. Statistics of interest and use. While it doesn't list the military spy satellites it does have pretty much everything else and even includes selected frequencies used aboard the *birds*, such as those in the 1700 and 2200 MHz bands. While there is no charge for a subscription they do seem to send it out rather sparingly and you *may* have to convince them that you have some significant reason for wanting to receive it, but with some issues running 140 pages it's a goldmine for those of you who revel in reading computer printouts! It's issued by: Office of Public Affairs, NASA Goddard Space Flight Center, Greenbelt Md. 20771.

SCRAMBLING

Within the federal realm there are selected military and civilian organizations which, even if only selected occasions, decide they want what they call *secure* or *encoded* communications, although the reasons may be for reasons far beyond simply not wishing "outsiders" to hear what they're saying. Secure communications could also be a way of avoiding jamming or even detection by the use of direction finding equipment. While there has been some actual voice scrambling noted in use by federal agencies which might be heard on a scanner, it is actually far less than you might imagine. Most agencies seem to take a quick-and-dirty approach by using their own voice shorthand, specialized lingo, codes, buzzwords, and methods of circumloqution in an effort to achieve at least *some* level of communications privacy. A few examples of the types of vocal shorthand and buzzwords one is liable to encounter while listening to a surveillance are shown in Table A.

TABLE A. SURVEILLANCE TYPE BUZZWORDS

Buzzword	Meaning
Boat	A car.
Box	A van.
Break Off	End surveillance.
Flicks	Surveillance films.
A Leg	Agent on foot surveillance
Kennel	The office of the surveillance agents.
Noisemaker	Mobile tailing transmitter.
Our Boy	Person under surveillance, also called *Our Friend* or *Our Interest. Our Main Interest* is the primary suspect in a group of persons under surveillance.
Package	Person in custody.
Redballed	Stopped at a red light.
The O	The office of the person under surveillance.
The R	The residence.
U-ie	A U-turn.
Unit	Vehicle.



Sometimes the buzzwords and circumlocution goes off the deep end.

These agencies do realize that there is the likelihood or at least the possibility that "outsiders" may be listening to their operations. One government official was quoted as saying that the U.S. Air Force, for instance, "has several *clear* radio channels used for non-sensitive communication, as well as some *secure* channels for sensitive matters . . . People . . . are cautioned to be careful when using those channels."

A spokesman for the Secret Service was quoted by UPI as saying that the agents are cautioned never to discuss anything sensitive over the radio. He said "We have known for quite a while that our . . . communications can be monitored."

Other agencies are not quite as philosophical about these matters and even express surprise at the very thought that "outsiders" can and do tune in on their channels using commercially available scanners! An AP story spoke of an official of one such agency who, when finding out that its operations could be easily monitored, "brought on talk of changing frequencies, or switching to sophisticated scrambling machines." More than a year later, another official of this very same agency was quoted by AP as being shocked to learn that some persons, " . . . had the secret frequqencies of federal . . . authorities."

Nevertheless, even a relatively brief stint at listening to the many agencies to be heard reveals the dependence upon buzzwords and "talking around" a specific topic without mentioning any key points clearly. By using this method one can only "be careful" to a point, and that point is where the person to whom the message is being sent finds the message so obscure that it has become totally meaningless. I recall hearing two agents on a stakeout one blustery winter night. One called the other and said, "I'm going to get some *hotel sierra*, do you want some?"

The response was, "I don't understand what you mean!"

"You know, *hotel sierra,* like the night before last."

"Sorry, I can't make out what you mean."

"Al, I'm going to the Chinese restaurant to get some *Hot and Sour* soup, like we had the other night, do you want some too?"

Why that had to be made int a secure message is beyond me, but it's an example of what can happen when things go off the deep end on these frequencies.

Of course, scramblers are a rather sophisticated and deliberate attempt at using technology to throw a wall of electronic privacy around communications. The single-phase type of scrambling encountered on some police frequencies appears to be easily unscrambled by anyone who connects a commercially made descrambler to their scanner; a job which takes but a few moments and no technical expertise whatsoever. There are several sources of such units which appear to be able to straighten out the majority of scrambled communications you're likely to hear. These are:

Capri Electronics, R. 1 Box 91-1J, Canon, Ga. 30520

Grove Enterprises, Brasstown, N.C. 28902

Some federal agencies have opted for scrambling techniques which are more complex and exotic than can be handily deciphered by the scanner owner, although there is obviously a way of unscrambling them or the technique would be useless to everyone. These generally fall into the category of *digital* scramblers, such as Motorola's DVP System. Motorola Semiconductor Products, Inc. (P.O. Box 20912, Pheonix AZ 85036) produces an interesting little inexpensive chip called the type CVSD interface IC. It's a building block for digital coding and encoding systems, and it's possible that if persons of a technical mind wished to obtain the specs of this *chip* along with a couple of the actual *chips* they might be able to see what the potentials are for building a digital descrambler. Two CVSD types are made, the Model MC-3417 (3-bit type) and the Model MC-3418 (4-bit type).

Another system called *Seek-Talk* is being developed by General Electric and Hazeltine under the supervision of the Air Force Systems Command Electronic Division (Boston). When developed, fully tested and approved, *Seek-Talk* will be less than one cubic foot in size, built for air and ground mobile station use, and will resist both monitoring and jamming. Lab tests, to be conducted at Eglin AFB in Fla., are to be completed by mid-1983 with full production a year later.

In previous editions of this registry I gave brief mention of one interesting voice security system. The system was so clever that I received a ton of mail from readers who either didn't believe the whole thing or who scolded me for not sufficiently explaining it and mentioning its source. This system uses what is called "frequency hopping," which means that the transceivers at both ends of the communication constantly and very rapidly jump from one frequency to another. There are 16 different frequencies in use at any given time and the system transmits a short (1/12 of a second) burst of voice on each of the frequencies in succession. Actually 24 different frequencies can be programmed into this transceiver so the user has some 50-billion choices of frequencies and programming sequences available.

Unless a person knows all frequencies in use at any given time there is no possible way to monitor these units. In addition, the units can't be jammed or located with a direction finder unit. Fact is, any person who happens to tune in on *one* of the frequencies in use won't even be aware that that radio transmission is taking place, the 1/12 of a second voice *blip* sounds about like common interference; This disguise is yet another strong point for the system. For an extra edge of security, think about the possibilities of using this system with a voice scrambler!

These units, which are about the size of a CB SSB transceiver, can be used as base stations, as repeaters, or installed in vehicles, vessels or aircraft. They operate between 145 and 166 MHz with from 2 to 100 watts output, and they can be operated in *clear* as well as *frequency hopping* mode, and also with facsimile (FAX) or data as well as 16 kHz wide FM voice. The privacy levels of this device, which is called the SC/16, are: 1. None, 2. Basic, 3. General or Industrial, 4. Non-tactical and Para Military, 5. Tactical, or 6. Strategic.

The SC/16 is manufactured by Transcrypt/International, 111 North 56th (Suite 10), Lincoln, NE 68504. It's an extremely clever and totally effective system which has countless applications. The cost is formidible, but is obviously within the means of those who want total voice security together with the knowledge that there are very few persons or even nations having the equipment and expertise to even make an attempt at breaking a frequency hopping system. Basically, it's a "signal which isn't there" being sent from a station which does not even seem to exist!

These are only some of the techniques being presently employed to aid or insure secure voice communications. There are other systems which are so complex that they could not possibly be explained on a comprehensible level without a 2-inch thick technical treatise.

EQUIPMENT

The popular scanners available these days should be able to pull in the most active and interesting frequencies in this registry.

Standard scanners normally cover at least 30 to 50 MHz, 146 to 174 MHz, and the UHF frequencies between 450 and 512 MHz. Some can also bring in the VHF aero band from 118 to 136 MHz, although special scanners are made to cover this band exclusively.

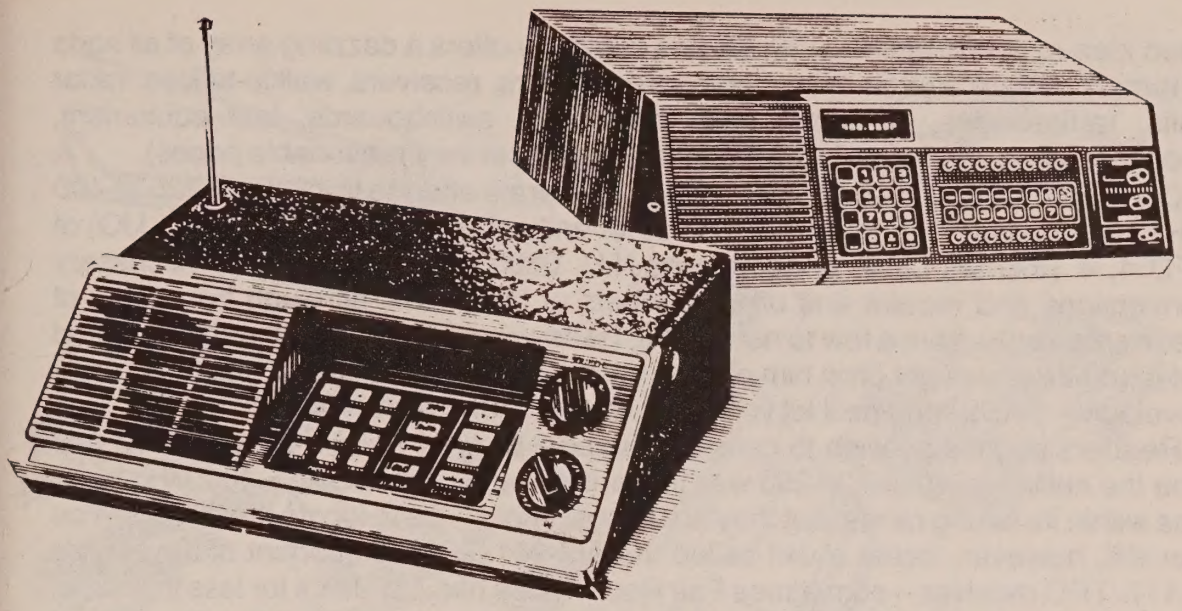
While it is not particularly feasable to modify the circuitry in keyboard programmable scanners to get them to receive frequencies outside of their basic design range, scanners which are crystal controlled can be rather easily made to pick up frequencies outside their design parameters. If the frequencies are more than 1 MHz past that range, the scanner may require a little re-peaking to bring it up to top performance there, although it may do well for local coverage only without any re-peaking.

Some of the newer scanners now include bands not previously available to the scanner owner, for instance the fantastic new Radio Shack *Realistic PRO-2002* covers 138 to 144 MHz and 410 to 450 MHz, two federal bands which have been rather elusive in commercially available advanced equipment in the past. At this point, only 225 to 400 MHz and 406 to 410 MHz are the only high-interest bands which are missing from scanners.

Of those scanners in current production the ones which I have found to be the best quility and most versatile are produced by Radio Shack (Realistic) Electra (Bearcat), Regency, Russel Industries (Rus-Scan), and Fanon/Courier.

When seeking to buy a scanner or the accessories which are used with scanners, stick with independent or chain electronics specialty stores or mail order electronics suppliers rather than "department" stores, "appliance stores" or other general merchandisers. Electronic specialty suppliers are usually staffed with persons well qualified to best understand your needs and interest ad then offer you good advice coupled with a wide selection of equipment. Since all scanners do not cover the identical frequency ranges, be certain that you have in mind which bands and frequencies in which you are most interested before you make your final decision.

Unfortunately, as I mentioned, one of the bands missing from commercial scanners is the 225 to 400 MHz UHF aero band. There is plenty of action there and many of us keep hoping that eventually someone at one of the manufacturers will bring out



a scanner for all or at least part of this very large (175 MHz wide) band.

My own monitoring of this band was started with a military surplus gear called an AN/URR-35C receiver, late of the U.S. Navy and as ugly as a junk yard dog. It lacked good frequency readout but it did pull 'em in. If you're starting out and can locate one of these receivers you'll probably have some inexpensive fun with it.

The best known equipment to monitor this band consists of two somewhat elusive and high-demand pieces of used military surplus receiving gear. I hasten to point out that neither of these is a scanner and they are not available "new" in factory unopened cartons. They are both components of military communications stations. Before they can be used at your home they will need some basic conversions done to them for operation on 117 VAC; hopefully, you can locate one which has already been so modified or *housebroken* for civilian use, and which has been equipped with easily available power and antenna connectors. Each set uses a frequency synthesizer to produce specific frequencies within the band, so no crystals are needed (although each set requires you to supply your own loudspeaker).

One of these receivers is a Collins R-278 (or later versions R-278A or R-278B) and is a 100 lb. tube job. It picks up the entire band in 100 kHz increments (225.2, 225.3, 225.4 MHz, etc). Ten channels (preset from the front panel) are easily set up and can be monitored one at a time by selecting the desired channel with a rotary switch. I think this rig is a veteran of the Korean war. It's nice even though bulky.

Next we come to the Motorola Moddel R-1121/TRC-87, a fabulous modular all solid-state receiver which I understand cost the government upwards of $25,000 per set to acquire, and supposedly less 100 were made (I have Serial Number 42). Inasmuch as this model is still in use by the USAF, and since several monitors seem to have them, I assume that at least some of the 100 sets were sold into the surplus market. Sharp eyed communications buffs can track these down from time to time. Far less bulky than the Collins job, and at half the weight, the Motorola picks up channels in 50 kHz increments (225.2, 225.25, 225.3, 225.35 MHz, etc.). It is best used with a wide-band preamp to increase its sensitivity, although a preamp is a welcome addition to *any* piece of VHF or UHF receiving gear—like a scanner!

Military surplus gear is obtainable at ham swap meets, ham flea markets, from other communications enthusiasts, and from commercial dealers in military surplus equipment. A major and well-supplied military surplus dealer has been found to be Fair Radio Sales (P.O. Box 1105, Lima, Ohio 45802) and their great catalog seems to display UHF aero band receivers regularly. Since this catalog is free it's probably a

good idea to get on their mailing list (the company offers a dazzling array of all sorts of former military equipment including transmitters, receivers, walkie-talkies, radar units, radiosondes, DF gear, field telephones, switchboards, test equipment, snooperscopes, and other similar surplus delights at very reasonable prices).

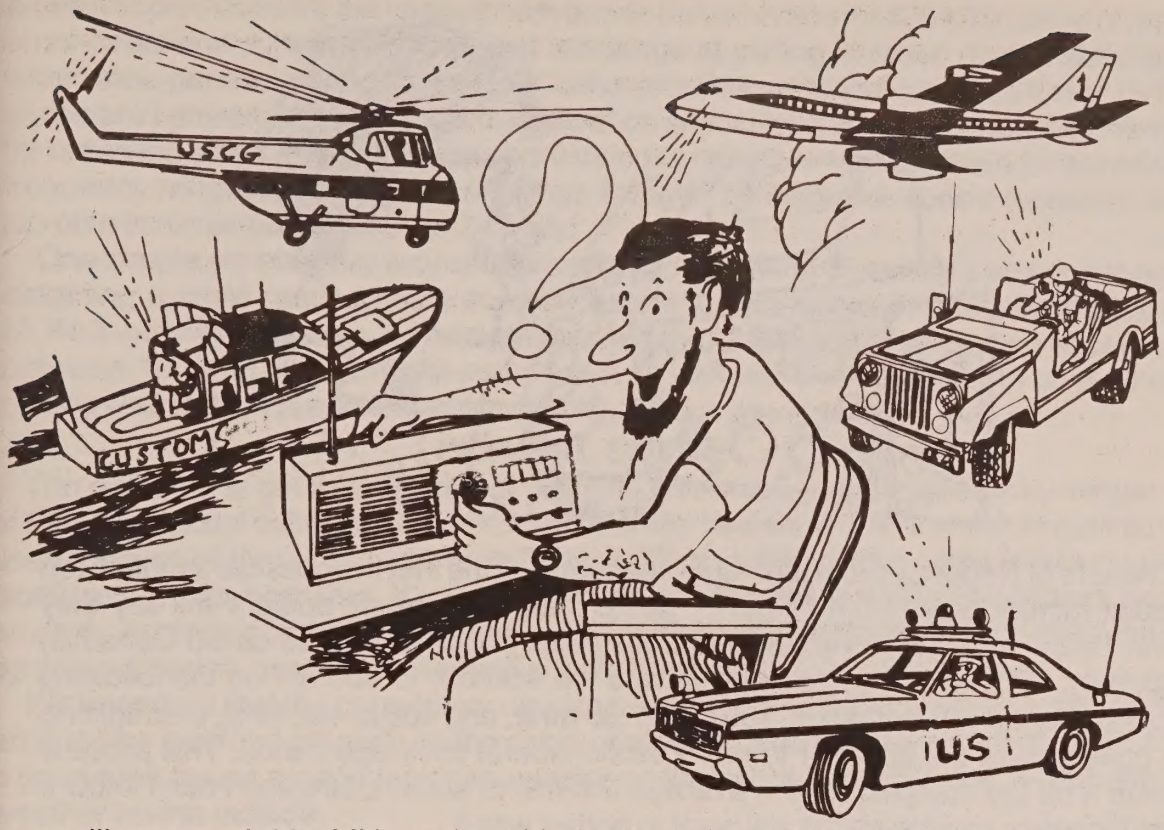
One communications buff who devotes deliberate effort to track down 225 to 400 MHz surplus gear in order to offer it to other enthusiasts is Bob Coburn (W1JJO) of RFD 4, 4 Tinkham Lane, Londonderry, N.H. 03053. He performs any necessary conversions and repairs and offers the sets at fair prices, although his supply of these sets varies from a few to none at all. Readers wishing to check with him to find out if he has any might drop him a letter (enclosing a self-addressed stamped reply envelope—SASE) and he'll let you know if he has anything on hand.

Readers might also wish to consider the possibility of using a converter. At one time the military surplus CV-253 was in plentiful supply and the 225-400 MHz band was within its tuning range; but they are almost impossible to locate these days. You can still, however, locate a unit called the AM-941/TRC component of the Navy's R-417/TRC receiver—sometimes Fair Radio Sales has AM-941's for less than $50. They require some conversion which you will have to do yourself if you can read schematics and are an experienced tinkerer. The conversion data for this unit was well covered by Bob Grove (WA4PYQ) in the October, 1980, of *CQ Magazine*; it's not for the rank novice, however.

Commercially made converters for any 18-Mhz wide segment of this band you want are available from Hamtronics, Inc., 65 Moul Rd., Hilton NY 14468. The "stock" units convert 240 to 270 MHz to the 144 to 174 MHz band for receiving the FM transmissions from the FLTSATCOM satellite, although you can specially order other 18 MHz-wide band segments for conversion to the 118 to 136 Mhz VHF aero band on any scanner covering this range. By the way, Hamtronics also makes other converters for oddball frequencies which may be of interest to you. For instance, there is a converter to pick up 72 to 76 MHz and play it out on 150 MHz where it can be received on any scanner. Another unit converts 135 to 144 MHz to 157 to 166 MHz; yet another converts the 400 to 420 MHz government band to 148 to 168 MHz; while another converter lets you hear the 806 to 894 MHz band between 424 to 512 MHz. Get their catalog for further details and complete specs of these units.

Reception of frequencies below 30 MHz is attainable with any good quality communications receiver. A regular CB antenna does a good job between 25 and 30 MHZ, in fact I have found that the Antenna specialists *Super Scanner*, a beam designed for CB use, does a fine job on my scanner between 30 and 50 MHz! There are plenty of *pirate* communications stations to be heard between 26.50 and 26.96 MHz, as well as from 27.54 to 28.00 MHz, and you are hereby warned that just because these are government frequencies they are rather freely usurped for use by so-called *outbander* bootleg communications hobbyists around the world, mostly using SSB mode. Although there has been some occasional talk of turning these frequencies over to hobbyists, the Office of Telecommunications Policy, Executive Office of the President (of the U.S.) wrote to the FCC (on 10/15/76) stating that the specific frequencies 27.575, 27.585, and 27.980 MHz were sufficiently important to federal operations that the government "would retain exclusive use of them even if the rest of the band were eventually released for non-government use."

If you have a communications receiver, remember that there's plenty of governmental operation below 25 MHz, even though its outside the scope of this registry. For instance, you can hear *Hurricane Hunter* aircraft communicating with ground stations on 4.668, 6.645, 8.962, 9.020, 11.396, 15.015, 15.048, and 17.901 MHz (USB). The Coast Guard uses 5.680 MHz (USB) for search and rescue purposes, while other USCG operations can be monitored on 5.696, 6.200, 6.506, 6.519, 8.980, 8.984 and 13.157 Mhz (USB)—in fact there even seems to be some USCG



surveillance on 8.984 MHz at times! Indeed, back in 1967, I had actually written a registry of federal operations below 25 MHz; it was called the *Confidential Frequency List*. That publication in its updated incarnation is excellently written by Perry Ferrell and it covers worldwide communications between 4 and 26 MHz—military, spy, embassies, INTERPOL, weather, ships, aircraft, etc. If you're into monitoring this sort of traffic on your communications receiver, contact Gilfer Associates, Inc., P.O. Box 239, 52 Park Avenue, Park Ridge, NJ 07656, regarding that publication.

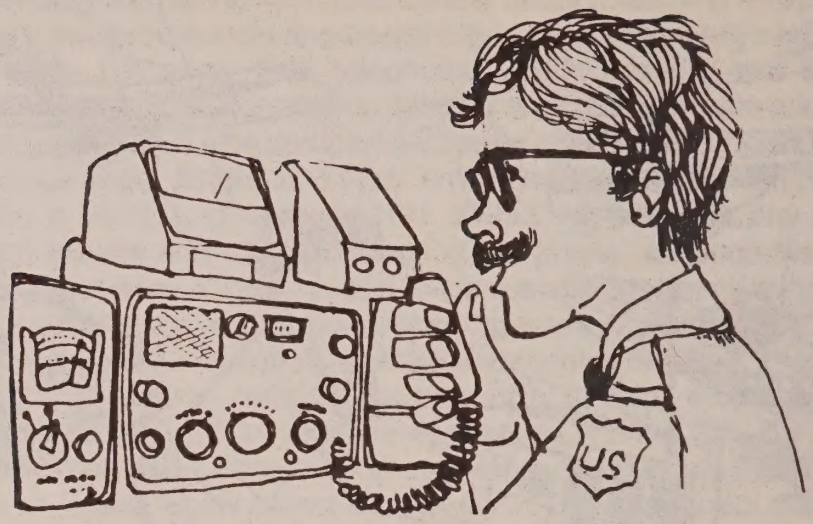
Those wishing to enhance scanner reception by means of a preamplifier can seek prices and specifications from Grove Enterprises, Hamtronics, Capri Electronics (addresses all mentioned previously), or check local electronics specialty shops selling scanner accessories. Another company producing an ultra-wideband (1 MHz to 1000 MHz) preamp is Pagel Electronics, 6742-C Tampa Ave., Reseda CA 91335.

FREQUENCY EXPANSION TRICKS

There seem to be a myriad of frequency expansion techniques around, each said to "open up" the frequency coverage of some of the commerically available scanners, notably Bearcats and Regencies. Some of these require long and complicated programming instructions and the end results are met with varying results, some monitors swearing by the technique while others being somewhat less enthusiastic.

The very simplest of these tricks, and one that does seem to work providing you aren't straying too far afield from the scanner's design specs, works with *some* Regency programmable scanners. This trick calls for you to push the decimal point button before you program in the frequency you want to hear outside of the scanner's specified coverage range, then you program in the frequency. So, if you wanted to monitor 143.155, you would enter .143.155 It's worth a try to see if it will work on your Regency.

For those interested in exploring the possibilities of some of the more complex tricks, such as are claimed to expand the frequency coverage of Bearcat scanners, I suggest contacting Digicom, Box 1175, New York, N.Y. 10009, as they publish this type of information.



Owners of Regency programmable scanners tell me that it is possible to obtain (on special factory order from Regency dealers although many dealers will say they never heard of it) some Regency models factory aligned with so-called Canadian alignment. This re-tuning process causes the scanner to operate on the following frequencies: 30 to 46.40 MHz, 138 to 167.80 MHz, and 406 to 482 MHz, thus shifting the coverage of the scanner to more exotic federal coverage bands. This process seems a bit too complex for the average tinkerer to accomplish, and I don't know if local Regency service shops will want to bother with it.

ANTENNAS

If you're looking for strictly local reception between 30 and 174 MHz, the built-in telescoping whip which comes with most scanners does a decent job. Specialized scanner antennas designed for outdoor installations, however, give *far* superior results and if mounted high and in the clear of any surrounding obstructions, should bring in the weaker and more distant stations which are not within the coverage capabilities of the built-in antenna. Amongst the many companies now producing quality scanner antennas are Avanti, Antenna Specialists, Antenna Inc., Winn-Tenna, Finco, Channel Master, Hustler, Grove Enterprises, and Pal Firestik.

Junction boxes, or *splitters*, permit operation of several scanners from one antenna (yes, some people run anywhere from 2 to 5 scanners simultaneously!). Note however, that there are times when *some* keyboard scanners do not react with great cordiality at the prospect of being placed in close proximity to others of their own ilk, especially when requested to share a common antenna. No harm done, but sometimes they will interact with one another and the scanning gets locked or otherwise a little bizarre. This doesn't happen with crystal-type scanners. If you have trouble locating a splitter from a local scanner accessory dealer, check with Gold Line, P.O. Box 115, West Redding CT 06896—they produce a wide variety of antenna connectors, lightning arrestors, switches, and similar doodads of interest to communications people.

Many readers have been kind enough to write to say that they've had especially good results with the *discone* type antennas which are being made for scanner use by Hustler and Winn-Tenna. These antennas are very widebanded and produce excellent results all the way from 30 MHz into the UHF region past 500 MHz!

Although not designed or intended specifically intended for scanner use, I've been generally impressed with the results obtained with beams and omni-directional

antennas produced for the various ham bands between 50 and 420 MHz. Most of the omni-directional types offer *gain* and are adept at pulling in those distant stations within their general frequency range. Cushcraft's Ringo Ranger and the Hustler G-7 series are lighweight types of this classification and so long as you intend using them for receiving only I wouldn't worry about trying to "tune" or "prune" them for specific frequency ranges. A 2-meter band Ringo Ranger, for instance, does a respectable job on a scanner tuning 118 to 174 MHz!

One simple yet effective way of approaching the VHF/UHF antenna situation is by obtaining a small ground plane scanner antenna such as the Antenna Specialists MON-3—it's inexpensive, lightweight, and easily cut to resonance at any frequency between 100 and 500 MHz. All you need is a hacksaw and the ability to follow the cutting chart which is packed with the MON-3. It's a 5 minute job!

COAXIAL CABLE

The *only* way to get a signal from an outside antenna to your scanner is by means of 52-ohm coaxial cable, such as RG-58/U, or the heavier RG-8/U which should be used for runs of longer than 50 feet. TV type 75-ohm (RG-59/U) cable is less than worthless for scanner use. It is important that all outside antenna installations be properly protected against lightning, and the Cushcraft *Blitz-Bug*, the Gold Line lightning arrestor, or other similar unit should be used.

It is important that the connectors used to hook the cable to the scanner and to the antenna be installed properly on the cable or else you won't hear very much, and it's a good idea to use a good moisture sealant on the antenna connection to keep the weather on the outside.

Although it may creep up on you somewhat sneakily, your scanner's ability to pull in those weak stations off in the distance may be greatly diminished after a period of time, your scanner slowly does a bit deaf, and it's so gradual that you won't know how bad things have gotten until you clean the wax out of its ears and start from scratch. Y'see, coaxial cable has a bit of an aging problem. Unlike a bottle of Chateau Lafite-Rothschild 1806, it gets no better or more valuable with each passing year. Out there in the ice/snow/sun/rain, it definitely starts to lose its vigor and ability to do a good job of getting the signal from here to there. Every year you should look over the black outer covering to make certain it has no punctures, cuts, holes, etc. If you see any, replace the entire cable. And no matter how good it looks, after 4 years you should consider sending it to its reward—you'll notice the difference immediately.

STATION IDENTIFICATION

While not having to put up with the formality of obtaining FCC licenses, the majority of civilian type federal agencies actually do have callsigns which are of the same general type as might be issued by the FCC to its licenses, not that these stations use them with any more regularity than do a great many FCC licenses.

Military stations also have callsigns, however they are infrequently used in voice communications. These stations either use *tactical identifiers* or else the name of the ship or base. Tactical ID's are code names or numbers which bear no relationship to any callsigns living or dead. While Coast Guard stations will identify as *Coast Guard Miami* or *Coast Guard Galveston*, other services might well identify as *Suit Case*, or *Show Me Zulu* or *Atlas*, etc., and it will be for you to figure out exactly what you're hearing—Army, Navy, Marines, Air Force, Customs Service, or whatever. Such identifications are used also by undercover operations of some civilian agencies, so you're on you own!

What's even worse, some of these guys tend to change these identifiers on an annoyingly regular basis. Today's *Alfa Lima 6* could easily become tomorrow's *Pickwick 9 Charlie*!

Even various people are or have been known by special coded names or words

when discussed over the air. The Secret Service has its own identifiers for those under its protection, all specified by the White House Communications Agency (WHCA) and contained in a highly secret "callbook list." These are strange "names" which might be monitored on the frequencies used by that agency, each President and member of his family being assigned a different code name. President Carter was *Deacon*, while Mrs. Carter was *Dancer* and Amy was *Dynamo*. President Ford was *Pass Key*; Nixon was *Searchlight*; Johnson was *Volunteer*; and Kennedy was *Lancer*. And 1980 brought messages relating to *Rawhide* and *Snowstorm*, Reagan and Bush.

The government has stated that all of these names are selected, at random, from a larger book of possible identifiers prepared by the government. It contains hundreds of words that are easily understood and pronounceable, and have no undesirable connotations. From this master list, individual identifiers are drawn from those who come under the watch of the Secret Service. Supposedly when a particular identifier receives too much publicity it is considered "worn out" and then replaced by a new one. However they say the "discarded" name is placed on inactive status and often turns up at a later date—after having been assigned to another person. My own feeling is that rather than having been selected totally at random, these "names" appear to be picked with a certain amount of wit. Once the code name of a more prominent person is retired it is actually seldom retrofitted to a new person, and once assigned these names are very rarely changed so long as the person remains under the agency's protection.

Even outside the realm of the Secret Service there have been noted rather informally used codenames, or maybe nicknames, to refer to certain people. John Malone, former head of the FBI's New York Office was known as "Cementhead" to his men. Another special agent in charge was known as "The Wedge." Top FBI officials in Washington acquired the informal code names "Hotel Johnny," "Blue Eyes," and "The Rodent." "The Littlest Agent" was the name given to the FBI's James B. Adams, because J. Edgar Hoover waived the minimum 5 ft. 7 inch height requirement to let him join.

Even within those agencies having callsigns assigned, some are reluctant to use them. The FCC, for instance, has shunned the use of callsigns in its own communications in preference to strange tactical identifiers such as W-6, KN-5, and N-1. These are included in the callsign section of this edition.

And those which do observe the use of callsigns are not without their own story to tell. An example might be cited in relation to the Immigration and Naturalization Service network. Many years ago when most 2-way communications were below 30 MHz, this agency's base stations had callsigns such as WWMN, WWMM, etc. When VHF came into vogue all of the stations appeared there with totally new callsigns, such as KAD276, KAD614, etc. Then somewhere in the early 1960's *some* of these stations started using different callsigns! KAD276 in Detroit had turned into KAD700! KAD614 had blossomed into KAK780; KAD280 had metamorphosed in KAK702, and so on down the line! To further confuse matters, some stations kept their "old" KAD callsigns, while a whole slew of totally new stations took to the air with KAK series callsigns!

Was this a "security" move? No way of knowing, but in the old days WWMN and WWMM (etc.) stations were not at all into concealing their identity. The standard identification of WWMN was *Mike Nan New Orleans*, while WWMM was *Mike Mike Miami*!

The majority of civilian agencies have callsigns consisting of the letter "K" followed by 2 letters and then 2 or 3 digits. Army and Air Force base stations begin with the letter "A" followed by 2 letters and perhaps 1, 2, or 3 numerals. Army vessels (mostly Army Engineers) have 4-letter callsigns beginning with the letter "A." USN

and USCG vessels have 4-letter callsigns commencing with the letter "N." USN shore stations have 3 letter callsigns starting with the letter "N;" several have a numeral after the last letter. USCG coast stations are 3 letters beginning with "N," some have 2 or 3 numerals following the final letter.

GETTING A HANDLE ON IT ALL

As you get used to monitoring the federal frequencies you may find that you have become a minor but well informed "intelligence gathering" operation. You begin to notice that a particular agency identifies its agents by code numbers while another agency uses the agents' first names and last initials. You will be surprised to note that some agencies which are ostensibly "undercover" boldly identify their base stations over the air by the names of the communities in which they are located! You'll start to note that some frequencies are used for surveillance, others for alarms, others for dispatching.

Before long you'll start to notice patterns of operation which become very useful in aiding you in identifying what you're hearing. You might see, for instance, that operations in your area on 163.95 are not isolated, but are coordinated with operations on 163.91, 167.375, 167.30, 167.41, and 167.46; a fact which might not have been at all apparent when you first started listening.

Be sure to take advantage of newsworthy events to help you locate and identify new stations and frequencies. Like a friend of mine who gave me a hurried landline call just before he evacuated his family from the shadow of the ill-fated Three Mile Island power plant. His message was, "Before I leave, I wanted to tell you that the Nuclear Regulatory Commission is running 168.20—gotta go now!!!" OK, so that's a grizzly example, but you get the idea. Major crimes, forest fires, volcanoes, hurricanes, tornados, riots, military maneuvers, visiting dignitaries, political and protest marches and functions, earthquakes—all of these things tend to bring into operation various frequencies which might otherwise be relatively or totally silent.

SOME LISTENING TIPS

If you've got a tunable receiver, either for VHF or for frequencies below 30 MHz—tune s-l-o-w-l-y! Look for those really weak stations down under the noise level. Modern communications receivers have a BFO or SSB switch and if you put your receiver in that mode as you tune across the bands you will find that it will aid you in noticing weak signals because of the heterodyne sound it will make when you encounter a signal. Then just tune it in better, and if it's an AM signal don't forget to switch back to AM to get rid of the heterodyne.

If using a scanner, don't be afraid to let it scan over or even stay parked on an apperently dead frequency for several days. There are some of these frequencies which are reserved for occasional use of the most sensational type! I've got a few in my area, one comes alive maybe once or twice a week but offers a preview of the headlines I might be reading in 3 or 4 days.!

The low band (30 to 50 MHz) offers some interesting challenges. During daylight hours you can often take advantage of ionespheric *skip* reception which will bring in far distant stations with local clarity. The rule of thumb here is that reception tends to be best in the direction of the sun from your location. On the east coast of North America, during the mornings you can hear Europe. As the late morning approaches you can hear into the Caribbean and Latin America, while afternoons bring in California. One of my favorite afternoon frequencies is 38.90 MHz which reveals the communications at several military bombing ranges in California—3,000 miles away from my location!

A programmable scanner with a *search* feature is really great for discovering all

sorts of new stations and frequencies. Set it for a band segment and let it perk along in that one spot for a couple of days. Don't try to search too large a band segment; by doing this you don't get enough of a chance to check any given frequency and you might well have missed it in action. So don't search any band segment below 174 MHz at more than a single 500 kHz swath at a time, and *always* run your scanner at the *fastest* available scanning speed.

When you find a new frequency, shut down the automatic scanning or searching and let it sit on the new discovery for at least 5 or 10 minutes. The brief transmission you first heard could well be only the start of a long series of transmissions you won't want to miss—not a single word!

Naturally, keep a log of some of the more interesting frequencies you encounter, you may want to go back and monitor there at some future date when you would have otherwise forgotten it. List any "mystery" frequencies in your log book, or place them in a card file for future reference. In fact, a card file type log is a good way of keeping your monitoring records, either by frequency in numerical order, or alphabetically by agency name. Cards in the "mystery frequency" file can then be moved around as you develop your information sources. Since pretty much everything really interesting you'll be hearing is "unlisted," much of your logbook or file will consist of tentative data (subject to change) and hunches—just as a considerable amount of information in this registry is. Few, indeed, are the most interesting frequencies which can be nailed down with 100% certainty by the listener, even after years of experience.

Never become *too* sure of what you're hearing. Programmable scanners are prone to producing the weirdest IF generated images and phantom signals which have apparently misled many listeners—2 meter ham signals appear in the VHF aero band or at 167 MHz. That type of thing. You have to learn to listen with a discriminating ear and to apply at least enough common sense to realize that it is indeed unlikely to expect that hams would suddenly go berserk and knowlingly commence operation in the middle of the FBI frequencies, 20 MHz outside of the authorized ham band!

My own record for being misled is not without blemish. One time I picked up a station on one of the commercial 2-way frequencies. It was obviously sending traffic relating to a nearby federal facility—this was deduced by hearing certain names and addresses being tossed around. I figured that I had stumbled into some federal operation set up on an innocent looking business band channel. I spread the word amongst a few carefully chosen enthusiasts only to be unhappily surprised to learn that I had been tuned into a pizza parlor making routine deliveries to the federal installation.

Because of these factors, I ask that you take what you discover with this story tucked into the back of your memory.

SECRECY OF COMMUNICATIONS

A law called Section 605 of the Communications Act is often mentioned in connection with the use of scanners. The basic intention of the law is to advise people that with the exception of ham radio and the AM/FM/TV broadcasting services, all other radio communications are considered private—or in fact *secret*! That, according to the law, even include CB radio.

From a practical standpoint it means that you, as an individual and private citizen, can tune in your radio to any frequency you desire to hear—but you aren't allowed to reveal to any other person or organization the contents of anything you might overhear from stations covered under section 605. Actually the law goes so far as to state that you can't personally benefit from messages you overhear or even say that a specific transmission took place!

Since Section 605 affects about everything you'll hear coming over stations operating on frequencies in this registry, it's a good idea to obtain a copy of the Communications Act of 1934 and read Section 605 to give you complete knowledge of what it says. My description was intended to give you a general idea of the drift of the thing.

While Section 605 appears to be open to some amount of interpretation, and has seldom been enforced in the area of scanner operation, certainly all monitoring enthusiasts should be aware that it does exist and that it *can* be enforced. In one of the few times it was enforced in connection with scanner use, the newspapers carried the sad tale.

According to UPI, a 26 year old resident of Shakopee, Minn., "listened in on broadcasts of federal drug and treasury agents . . .as the agents were watching drug and stolen-good suspects. He then contacted the suspects and told them they were being watched . . ." The news story went on to say that federal prosecutors took him to court where he was "sentenced to 3 months in prison and ordered to live the next 36 months without owning any . . . equipment."

In addition to Section 605, in many areas there are state or local laws which take a dim view of installing scanners in motor vehicles unless one or another forms of special permission is received—usually said to be granted after a showing of a need for such installation. Some of these laws are so poorly written that they do not take into account the use of hand-held scanners within vehicles, others are so "tight" that they would seem to exclude the use of CB equipment in vehicles. Before you install a scanner in a vehicle you'd be well advised to find out about any laws in your area which could restrict such an installation, and don't forget that if you are driving into distant areas the laws are probably totally different. So far as I am able to ascertain there don't appear to be any laws restricting the use of scanners in aircraft or vessels so long as such use is not restricted by the owners of the aircraft or vessel—you might wish to ask first if you've got plans for suce use.

GETTING QSL'S

I suppose it's ironic to discuss getting QSL's (verification of reception) cards on the heels of a discussion about Section 605, but many of the people who are interested in scanner monitoring seem to enjoy pursuing this aspect of things. Despite Section 605 and some recent ads from a communications equipment manufacturer insinuating that scanner owners are the "gangster element," the world of scanner owners is mostly comprised of casual listeners and serious hobbyists. Don't forget that scanners are freely and openly offered to the public and there is nothing either illegal or sinister about them or those who use them. Several million scanners are now in the hands of the public.

It does seem that a great many of those who staff various radio communications stations fully realize this and don't look with any particular annoyance or horror at a request to "QSL." Most federal agencies are actually rather cooperative. Not *all* agencies, mind you, but most of them; there are those which have become somewhat shook up at finding out that someone was listening to their communications and then had the brass bedsprings to actually write and ask for a verification! This ties in with what I mentioned earlier about some agencies still reacting with some surprise at learing that the public knows their "secret" frequencies—even though the band segments reserved for federal station frequency assignments are a matter of public record. Learning that some private citizen has zeroed in on them, figured out their station locations, etc., is just too much for some of these people to accept with any amount of sophistication, grace, and good humor. That being the case, those various agencies concerned with surveillance, security, undercover, or enforcement

A few federal stations in recent years had their own QSL's, but not many.

and detection work would probably rate a *goose egg* on a scale of 10 of those who would be overjoyed to hear from someone asking for verification.

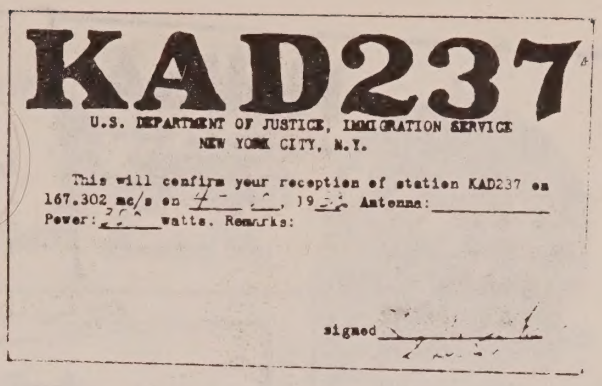
Back in my intrepid youth, while I was into writing to investigative agencies and asking them to send me their frequency lists, I was also very much into this QSL'ing business. My files still contain a letter to me dated April 20th 1950, signed by the FBI's J. Edgar Hoover (by this time he must surely have gotten weary of hearing from me) commenting on these matters. He notified me, "Reference is made to your letter . . . requesting confirmation of certain radio signals heard by you. In reply thereto, please be advised that as a matter of policy this Bureau cannot undertake to confirm reports of radio station activity. Accordingly, your post card is being returned herewith. Trusting that you will appreciate the need for such a policy . . ." Well, it was worth a try, anyway, and some say it was a valid QSL!

I was undaunted and during the early 1950's I did manage to extract rare QSL's from two Immigration and Naturalization Service stations, one in New Orleans and the other in New York, but it took a lot of work, and later efforts to get additional QSL's from this and other similar agencies were mostly without success.

"Nonsensitive" agencies and even the military forces, have generally been rather cooperative about QSL'ing reception reports and my files bulge with verifications heard from stations using AM/SSB/FM/RTTY/VHF/UHF, and located on land, sea, and in the air. That includes many stations using tactical identifiers instead of callsigns. But this is no claim to having a monopoly on such QSL's; many listeners have far more extensive collections of QSL's from federal stations than I have, in fact listeners such as Mike Chabak and Mark Chinsky make my QSL efforts look miniscule.

If you are hoping to send reception reports with the idea of getting a QSL, here are some thoughts. Let me point out that back in the early days (like in the 1930's) there was a tendency for lots of non-ham stations to have actual QSL cards all printed up. Those were the early days of radio and people still regarded reception reports as somewhat of a novelty. Mostly, these days, the novelty has worn off and what with budget limitations and general paranoia, few government agencies have regular printed-up QSL cards, except for the National Bureau of Standards and some MARS

Here's a bit of a rarity, and probably one of the only QSL cards ever gleaned from the likes of the Immigration and Naturalization Service. I received it back in 1953, but since that time it's been slim pickins' with extracting QSL cards from investigative and enforcement agencies.



KAD237

U.S. DEPARTMENT OF JUSTICE, IMMIGRATION SERVICE
NEW YORK CITY, N.Y.

This will confirm your reception of station KAD237 on 167.302 mc/s on 4-__-__, 19__. Antenna:_____
Power:__ watts. Remarks:

signed_____

stations. At the present time, getting a QSL card means making one up for them to sign and return to you—and you pay the postage! You prepare the card and enclose it with your reception report, and just in case the stations is inclined to look with favor upon your request they need only to sign your card and drop it into the mailbox.

A typical wording for your return card might be: "This will confirm your reception of station KLW571 of the National Wombat Commission on 166.66 MHz, on December 32, 1999." If you leave some space at the bottom of the card (just above the spot for the signature) you may be pleasantly surprised to find that they have added all sorts of interesting additional information such as the transmitter power, antenna type, other operating frequencies, etc.

In the reception report you send them, mention that you are a VHF experimenter and hobbyist. Describe your station, tell of any other QSL's you may have received from similar stations, describe their signals and how they sounded (strength/modulation). If you have a registered monitoring station identification number, such as the one I use—KNY2AB, it will give you that extra edge since many persons involved in VHF communications are familiar with these numbers and realize that they indicate someone who is "a serious and active user of professional communications monitoring equipment, and a contributor to the art and science of this vital and important aspect of communications." These numbers are also worthwhile to mention when writing to scanner manufacturers, communications publications, other scanner users, etc.

Also in your report, mention the date and time you heard the station, say if there were any interference problems, etc. Try to be rather non-specific in your description of the transmission your intercepted—it's OK to say something like "Base in communicatin with Unit 4" in preference to the exact details or the content of the message.

AIDS

A *must* publication for those interested in monitoring the governmental bands is "The United States Government Manual." This is a large book issued every two years by the Government Printing Office. It contains loads of information on the functions of all federal agencies, their organizational structures, locations of some of their major offices, names of officials, etc. For information on current price and ordering instructions, write to: Supt. of Documents, Government Printing Office, Washington DC 20402.

There are many clubs currently in existence which address themselves to communications enthusiasts, and while many are a total waste of time, a few are quite outstanding and publish excellent monthly publications relating to various aspects of listening; crammed with frequencies and station information.

My own preference as being the most worthwhile and outstanding of the various membership organizations concerned with monitoring are:

Radio Communications Monitoring Association (RCMA), P.O. Box 4563, Anaheim CA 92803. This club specializes in scanners and has now expanded into monitoring of frequencies below 30 MHz. An excellent monthly newspublication runs about 80 pages and includes a section on federal monitoring. I *highly* recommend RCMA.

Three top-notch general nterest groups publishing monthly newsletters covering lots of info on shorwave listening, and having some federal station listings are:

American Shortwave Listeners Club, 16182 Ballad La., Huntington Beach CA 92649.

Newark News Radio Club, P.O. Box 539, Newark, NJ 07101.

Speedx, P.O. Box E, Elsinore CA 92330.

One specialty group, while not concerned with scanners, is worthy of mention because it has attracted a close-knit following from within the ranks of hard-core communications buffs. That would be the Longwave Club of America, Box 33188, Granada Hills Ca 91344. They are concerned *only* with radio communications between 1 and 530 kHz, which includes lots of far-out stuff on beacons and some of the VLF communications systems being used throughout the world, ncluding by the U.S. Navy. A nice monthly newsletter goes with membership in LWCA.

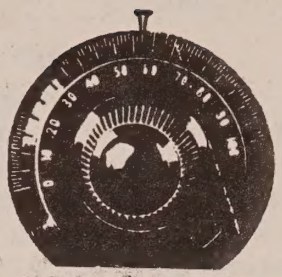
If you're interested in further information on any or all of these groups, plus current membership dues, contact them directly and include a self-addressed stamped envelope. Tell 'em I sent ya.

SUMMING UP

I hope that you will share with me your own educated guesses and/or more definite information relating to frequencies, locations, callsigns, tactical ID's, etc. With continuing input from all areas and comparing of notes we can keep moving forward in sharpening the accuracy of this registry. One of the new "Top Secret Monitoring Project" participation certificates for the next (5th) edition would look nifty at your monitoring station, wouldn't it? In the mean time, while I'm waiting to hear from you I'll be sitting here nursing a bowl of *hotel sierra*.

THE WAY IT WAS IN

RADIO INDEX



FAMOUS DX'ING MAGAZINE OF THE LATE 1920'S TO THE EARLY 1940'S. A RARE GLIMPSE AT HOW FEDERAL STATION MONITORING WAS GOING FORTY TO FIFTY YEARS AGO! HERE ARE YOUR ROOTS!

APRIL, 1931 ISSUE:

WLY, KTU and NAL

"For the information of your puzzled readers who inquired about the following: WLY in Fort Monmouth, N. J. (Long Branch), is a fixed point-to-point station of the U.S. Army, is used for government business only, and therefore has no set hours of operation nor any set frequency. KTU, Redding, Calif., is a Municipal Airport station, for point-to-point and aeronautical communication, owned by Boeing Air Transport, Inc. It operates on 278, 3,172 and 5,660 kcys. or 1080, 94.57 and 53 meters respectively. Do you have any information on NAL, the Washington, D. C., Navy Yard? They are listed for 690 kcys. The call book says they give the weather at 2045 GCT., type A3 (voice) transmission.

JANUARY, 1932 ISSUE:

Army Broadcasters

Those mysterious stations, EQ-7 and EW-7 have been traced to their respective lairs by our readers. E. A. Feichtner, 53 Chestnut Lane, Erie, Pa., and Earl R. Roberts, Cambridge, Ohio, report upon them as follows: EW-7 is located in Jackson, Michigan, and is owned by the 119th Field Artillery, Headquarters Battery, 2nd Battalion of the U. S. Army Corp. John B. Osburn, 1321 North Waterloo Ave., Jackson, Mich., in charge. EQ-7 is at Lansing, Corp. Cross in charge. These are both Army stations and their permits are issued by the War Department.

APRIL, 1932 ISSUE:

Here's That GZ7

Here's a report on the mysterious GZ7 from Elmer C. Roth, 1294 W. Grand Blvd., Detroit, Mich. "This is the call assigned to the Armory for experimental purposes. It is located at Brush and Larned Streets in Detroit. They have been given permission to use 635 kcys. It is on the air every Monday and Friday evenings from 7:00 to 8:00 p.m. EST." This doesn't exactly clear up the mystery, for where do they get a "G" call and why are they permitted on a split frequency in the broadcast band? We have a hunch the armory boys are trying to slip something over.

George Fabian, 1463 Virginia Park, Detroit, adds the following regarding this station: "GZ7 is the station of the Michigan National Guard, 182nd Field Artillery. February 1st they broadcast their own band, played well-known marches, asked for criticism and promised music every Friday at 8:00 p.m. EST. They are on 640 and 1275 kcys. Come in best on 640."

MARCH, 1934 ISSUE:

Some Army Stations

"I am hearing several stations on about 6660, very close to HC2RL's frequency, in the afternoons," contributes Geo. W. Burns, 2466 Wahl Terrace, Cincinnati, Ohio. "Only two are identified: PT2 at Langly Field, Va. and PX1 at Selfridge Field, Mount Clemens, Mich. PT2 has been heard calling several planes, designated by numbers.

NOVEMBER, 1934 ISSUE:

The "M" Stations

"More interesting, from the point of view of reception, are the forestry stations. These are between 3350 and 3400 kcs. I understand that there are about 85 such stations in California, and perhaps many others in other states. These stations, being authorized by Presidential proclamation, are not directly under the FCC (Federal Cummunications Commission), therefore do not have the regular W or K calls (I suppose that a similar case is that of the queer calls used by the army).

MARCH, 1935 ISSUE:

The Army Stations

"Concerning the report on two mysterious stations VK1 and IS3 in a recent number of RADEX, I think I can clear up the mystery," commences almost a hundred letters from readers all over the United States and Canada. We cannot possibly acknowledge all the letters, so merely say THANKS to everyone who took the trouble of writing. These are Army Airways stations working on various wavelengths near 45-46 meters or 6645 kc/s. at all hours of the day and night. A list of these stations, compiled from the letters sent in by our readers, follows:

A77, Barksdale Field, La.; BB1, Maxwell Field, Montgomery, Ala.; FG7, Langley Field, Va.; G24, Fort Crockett, Texas; IS3, Bolling Field, Va. (Washington, D. C.); JJ6, an army airplane; MN6 and MN7, Maxwell Field, Ala.; PD1, Maxwell Field; PE2, Wright Field, Dayton, Ohio; VK1, Selfridge Field, Mt. Clemens, Mich.; WO9, Mitchell Field, N. Y. The locations of the following stations are unknown: M36, M37, M38, SP91, SP93, and SP94.

FEBRUARY, 1939 ISSUE

Chester Roman, Chicago, Illinois: "Some unusual stations which I heard and would like some information about are BU4 of Indianapolis and planes EC2, EC6, and EC9 on 3450 kcs. between 9 and 11 p.m. On 6474 kcs. I'd like some information about Army Plane JJ6 at Seymour, Indiana contacting WYB—Bowling Field on 6760 kcs. KK1 at Havana, Ill. on 6260 kcs. to WYJ on 365 kcs. and lastly QZ7 of Barksdale Field, Shreveport, La. heard on 3210 kcs.

KIPQ on 2786 kcs. at Beatrice, Nebr. heard along with KIPR of Red Oak and KIPT of Truro, Iowa. Army station MT5 on 4475 kcs. heard calling Army plane 6307 heard on the same frequency.

The U.S. Immigration Border Patrol now operates on the following radio stations on the Northern Border:

WWMD Derby Line, Vt. on 2770, 4617, and 8790 kcs.

WWMH Highgate Springs, Vt. on 2775 kcs.

WWMR Richford, Vermont on 2770 kcs.

WWMB Buffalo, N. Y. on 2822, 4617, and 8790 kcs.

WWME Chateaugay, N. Y. on 2770 kcs.

WWMO Ogdenburg, N. Y. on 2770 and 4617 kcs.

WWMP Rouses Point, N. Y. on 2770 kcs. and 4617 kcs.

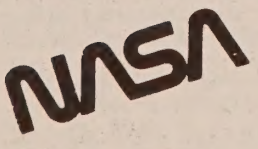
WWMA Detroit, Mich. on 2710, 4617, and 8790 kcs.

WWMC Marine City, Mich. on 2710 kcs.

KYZM Lynden, Washington on 2710 and 4617 kcs.

(U.S. Dept. of Labor, via R451-Ill.)

LISTINGS SECTION



MAJOR U.S. GOVERNMENT COMMUNICATIONS INSTALLATIONS/FACILITIES

The listing below is generaly arranged in alphabetical order of the name of the installation, facility, or airport, withut regard to location. A few government suppliers are listed by company name if they are not listed within the listing of a particular federal installation at which they might be located. Civil (non-military) airports are also listed if it has been determined that there are special frequencies set aside at those facilities exclusively for communication with military aircraft.

A code letter *before* one or more frequencies indicates that all frequencies which follow that code letter up to the following code letter are used for a specific purpose, as denoted by the code letter. Therefore a listing which reads: T 126.2 340.2 G 121.6 means that there is a Control Tower operating on both 126.2 and 340.2, while 121.6 is used for Ground Control.

USAGE CODES USED THIS SECTION

AD	APPROACH &/OR DEPARTURE OF AIRCRAFT
AF	AIR FORCE OR AIR NATIONAL GUARD
AFR	AIR FORCE RESERVE
ANG	AIR NATIONAL GUARD
ARMY	ARMY OR ARMY NATIONAL GUARD
CG	COAST GUARD
CP	COMMAND POST
DI	PILOT TO DISPATCHER
E	AIRCRAFT CLEARANCE DELIVERY
FD	FIRE DEPT &/OR CRASH TRUCKS
FSS	FAA FLIGHT SERVICE
G	AIRCRAFT GROUND CONTROL
MAC	MILITARY AIRLIFT COMMAND
MSC	MISCELLANEOUS USES
MUNI	MUNICIPAL AIRPORT
NAS	NAVAL AIR STATION
NG	ARMY NATIONAL GUARD
OP	OPERATIONS CENTER
R	RADAR APPROACH FREQ IN ADDITION TO REGULAR APPROACH (''AD'') FREQS
S	AUTOMATIC TERMINAL INFO SVC AT AN AIR BASE (ATIS)
SAC	STRATEGIC AIR COMMAND USAF
T	AIRPORT CONTROL TOWER
TAC	TACTICAL AIR COMMAND USAF
TAG	TACTICAL AIR GROUP
TAS	TACTICAL AIR SQUADRON
TAW	TACTICAL AIR WING
UNICOM	AIR BASE ADVISORY STATION
USMC	U S MARINE CORPS
USN	U S NAVY
WX	WEATHER FORECASTS/REPORTS

ABERDEEN PROVING GND- SEE PHILLIPS AAF
ABERDEEN REGIONAL APT SD FSS255.4
ABILENE TX FSS255.4 AD125.Ø 124.1 121.3 126.5 322.3 338.3 379.1 T257.8 AF142.155 143.46
ABRAMS MUNI, GRAND LEDGE MI NG41.85 122.7 241.Ø
ACADIANA REGNL NEW IBERIA LA AD278.5 ARMY ("CAJUN") 41.5Ø 126.2
ACKLEY IA USN148.35 148.41 148.95 15Ø.Ø9
ADA MUNI OK AD322.4 AD322.4 AF142.155 143.46 413.1Ø 413.4Ø
ADAMS FLD LITTLE ROCK AR AD3Ø6.2 353.6 34Ø.9 372.8 378.8 385.6 T257.8 AF38.65 165.Ø6
AERO CORP LAKE CITY FL 123.4 123.45
AEROFLEX-ANDOVER APT NJ AD 379.9
AERONCA INC MIDDLETOWN OH 462.5Ø
AEROJET GENERAL COMPANY
AZUSA CA 154.6Ø 462.25
CHINO CA 157.74
DOWNEY CA 151.625 462.25
FULLERTON CA 151.625 462.25
NIMBUS CA 151.775 151.835
AIKEN MUNI SC AD231.1
AKRON OH USN34.55
AKRON-CANTON REGNL APT OH AD226.4 257.8 323.Ø G348.6 T257.8
AKRON/FULTON MUNI OH AD257.8 226.4 T257.6
AKRON-WASH CNTY APT CO FSS255.4
ALABAMA ARMY AMMO PLANT CHILDERSBURG AL ARMY173.485
AIR FORCE ACADEMY CO AF119.4 123.5 126.2 139.68 148.Ø95 148.245 148.55 149.115 149.325 149.425 149.55 15Ø.225 15Ø.345 163.375 163.46 165.Ø1 173.435 173.585 32Ø.1 376.Ø
ALAMEDA APT ALBUQUERQUE NM AD354.1
ALAMEDA NAS (NIMITZ FLD) CA AD12Ø.9 135.1 135.4 257.2 268.7 3Ø7.2 313.2 323.2 35Ø.8 351.8 354.1 S284.2 G352.4 T127.Ø5 34Ø.2 36Ø.2 384.4 WX359.6 USN3Ø.55 32.Ø5 36.53 36.57 36.63 36.87 138.6Ø 138.625 138.65 138.725 138.775 139.525 14Ø.Ø75 14Ø.1Ø 14Ø.13 14Ø.4Ø 14Ø.65 14Ø.775 14Ø.875 14Ø.9Ø 14Ø.975 142.68 142.7Ø 142.775 143.525 143.575 143.625 143.675 148.325 149.Ø75 149.125 265.9 275.4 28Ø.2 32Ø.2 32Ø.4 336.2 341.Ø 344.1 356.25 365.5 366.5 367.5 368.5 376.8 CG171.36 ARMY23Ø.5 231.5 241.5 244.5 245.5 246.5 247.5 345.5 392.5 393.5
ALAMOGORDO-WH SANDS REGNL APT NM AD284.Ø 324.3
ALAMOSA MUNI-BERGMAN FLD CO AD343.7
ALBANY CNTY APT NY FSS255.4 AD226.8 3Ø7.2 G348.6 T226.8 257.8 NG41.ØØ 41.Ø5
ALBANY GA USN139.65 142.5Ø 142.85 148.3Ø 148.375 148.41 148.95 148.975 149.125 15Ø.Ø9 15Ø.375
ALBERT J ELLIS APT JACKSONVL NC AD257.6
ALBERT WHITTED APT ST PETE FL AD319.8 T257.6
ALBION APT NJ AD263.6
ALBUQUERQUE INTL APT/KIRTLAND AFB NM S118.Ø 363.8 DI372.2 UNICOM122.95 FSS255.4 AD121.1 123.9 124.4 3Ø1.5 317.6 354.1 G121.9 G348.6 T118.3 12Ø.3 257.8 R127.4 316.7 E119.2 385.6 CP ("BURGLAR") 349.4 372.2 AF32.45 34.2Ø 36.85 4Ø.15 4Ø.17 4Ø.19 41.95 46.75 46.95 138.Ø75 138.165 138.175 138.25 138.5Ø 139.6Ø5 139.8Ø 139.995 141.8Ø 141.915 142.275 143.725 143.8Ø 148.Ø75 148.225 148.515 148.575 148.755 149.145 149.175 149.2Ø5 149.385 149.475 149.525 15Ø.195 15Ø.225 15Ø.285 15Ø.345 15Ø.35 163.46 163.485 163.51 163.535 163.585 163.9Ø 164.Ø25 164.7Ø 165.Ø6 165.11 165.135 165.16 165.185 17Ø.15 173.435 173.51 173.535 173.585 229.2 236.Ø 242.Ø 249.5 251.9 254.4 272.Ø 276.8 291.Ø 299.1 3Ø3.5 311.2 311.4 314.4 315.Ø 337.5 377.5 379.2 381.Ø 382.6 395.5 396.1 399.5 4Ø7.375 4Ø7.425 4Ø7.5Ø 413.1 413.15 ARMY149.8Ø 17Ø.575 225.5 387.5 USN143.725 MSC413.4Ø WX342.5
ALCOA ANG STATION TN ANG46.75 271.1 322.7 396.9
ALEXANDER FLD-SO WOOD CNTY APT WISC RPDS WI AD317.7
ALEXANDRIA VA USN14Ø.25 CG 4Ø9.825
ALICE INT'L APT TX FSS255.4 AD383.6
ALLEGHENY CNTY APT PITTSB PA AD337.4 FSS255.4 T239.Ø
ALLEN CNTY APT LIMA OH USN148.4Ø 15Ø.Ø75
ALLEN C THOMPSON FLD JACKSON MS FSS255.4 AD317.7 G348.6 T352.Ø ANG148.2Ø 163.485 163.585 165.135 264.6
ALLENTOWN-BETHLEH-EASTON APT PA AD257.8 T257.8
ALLENTOWN-QUEEN CITY MUNI PA AD257.8
ALMADEN AF STATION CA AF15Ø.2Ø 228.9 234.6 238.4 254.2 26Ø.8 267.Ø 27Ø.2 274.4 278.4 278.7 293.8 299.Ø 3Ø9.4 316.3 32Ø.6 324.Ø 327.9 336.6 341.8 346.2 359.4 364.2 377.Ø 387.8 398.Ø
ALMIRA AF STATION WA AF227.8 24Ø.Ø 252.2 257.475 257.525 262.6 266.4 272.525 287.2 292.1 3ØØ.Ø 315.Ø 324.3 341.6 343.35 394.6 361.5 363.325 363.35 367.6 384.7 397.1

ALTOONA-BLAIR CNTY PA FSS255.4 AD299.2
ALTUS AFB OK S109.8 273.5 DI372.2 AD125.1 290.9
348.3 G289.4 T126.2 255.6 SAC311.0 321.0
MAC349.4 WX239.8 AF46.75 139.60 139.65 142.25
148.035 148.065 148.175 148.545 149.30 149.565
149.135 163.46 163.485 163.51 163.535 163.585
164.50 165.11 165.16 173.05 173.435 173.535
173.585 251.9 259.3 275.8 324.3 338.6 340.6
341.5 384.7 391.9 396.9 413.15 413.45
AMARILLO INT'L APT TX FSS255.4 AD290.3 307.0
307.9 G348.6 T257.9 SAC311.0 AF413.45
AMARILLO TX USN36.85 148.35 148.95
AMEDEE AAF/SIERRA ORDINANCE DEPOT HERLONG CA
AD285.5 T126.2 241.1 ARMY148.60 148.70 148.75
148.80 148.85 148.90 166.485 167.075
AMES MUNI IA AD252.9
ANACOSTIA NAS DC USN142.75 143.70 276.4
ANDALUSIA-OPP APT AL AD237.5
ANDERSON CNTY APT SC AD385.4
ANDREWS AFB CAMP SPRINGS MD DI122.85 372.2
S113.1 269.9 AD119.3 125.65 294.5 WX344.6
E127.55 393.1 G121.8 275.8 T118.4 236.6 289.6
CP141.55 378.1 AFR143.8 351.2 FD173.585
MAINTENANCE 413.2 AF138.075 138.165 139.65
139.875 140.40 141.55 141.70 143.825 143.95
148.065 148.095 148.10 148.485 149.175 149.205
149.265 149.30 149.475 149.565 149.65 163.46
163.485 163.51 163.585 164.40 165.01 165.16
165.735 172.95 173.56 228.8 230.5 234.7 235.5
238.8 240.5 243.5 249.5 251.0 251.9 252.5 256.6
263.2 267.4 270.4 275.0 280.2 287.8 292.2 292.7
302.4 306.4 316.4 325.5 326.0 337.0 338.4 342.2
344.0 356.0 361.6 364.2 369.0 369.5 372.5 375.1
375.5 378.5 386.2 388.5 389.0 390.5 392.5 392.8
394.5 398.5 407.425 408.425 409.35 413.0 413.025
413.075 413.125 413.15 413.35 413.375 413.45
FBI 163.485 ARMY 167.975
ANDREWS AFB NAVAL AIR FACILITY DC DI140.6 386.8
USN122.85 138.52 138.65 138.72 138.725 139.48
139.54 139.575 140.10 142.85 142.86
ANGELINA CNTY LUFKIN TX FSS255.4 AD269.6
ANNAPOLIS MD USN ACADEMY SECURITY/FD 148.425
USN32.36 140.075 140.275 140.64 140.65 140.775
148.31 148.35 148.95 149.00 149.05 149.40 150.09
150.39 285.0 304.2 315.6 361.2 364.2 385.0
ANNISTON-CALHOUN CNTY APT AL FSS255.4 AD381.5
ANNISTON ARMY DEPOT HELIPAD AL ARMY41.50 126.2
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ANOKA CNTY-BLAINE (JANES FLD) MINNEAPOLIS MN
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ANTRIM CNTY APT BELLAIRE MI AD398.9
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ARANSAS CNTY APT ROCKPORT TX AD281.9
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ARCATA APT/NAS CA FSS255.4 CG381.7 381.8 383.9
ARCHER CITY TX USN 143.50
ARDMORE MUNI OK FSS255.4 T257.7 AD322.4
ARGONNE RESEARCH & DEVELOPMENT LABS IL
155.34 164.75 411.20 418.075 FD154.25 154.265
SECURITY 155.475 USN148.41 150.09
ARLINGTON TX ARMY 30.50 34.10 46.65 49.80 139.00
141.025 142.55 148.025 148.65 149.85 226.4 231.9
234.4 237.75 242.3 265.5 277.5 299.9 321.5 356.9
374.4 376.3 386.6
ARLINGTON VA USN 138.55 138.60 138.625 138.65
138.82 139.48 139.50 140.50 140.56 142.10 143.55
148.40 148.515 149.10 ARMY 173.41
ARLINGTON MUNI TX AD227.8 364.0
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ARNOLD AF STATION TULLAHOMA TN AD125.4 353.5
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165.035 165.135 251.9 261.0 288.7 SAC 311.0
FED AVIATION ADMIN TEST CENTER 123.15 123.25
123.4 123.45 123.5 123.55 165.61 165.76 166.10
166.175 169.225 169.375 172.175 172.185 172.725
172.81 172.85 172.875 172.95 263.6 410.65
ATLAS POWDER DIV TYLER CORP ATLAS MO 153.125
AUBURN-LEWISTON MUNI ME AD269.6 AF 143.75
AUBURN-OPELEIKA R G PITTS APT AL AD388.0 AF335.8
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150.135 150.345 163.375 264.6 271.1 272.0 276.6
276.8 283.7 286.4 292.2 300.9 316.9 327.3 340.6
341.5 342.3 349.3 364.1 376.1 397.0 409.425
413.175 413.325 413.425
AZTEC AZ USN 142.85
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BACON CNTY APT ALMA GA FSS 255.4 AD 290.4
BADER FIELD NJ SEE ATLANTIC CITY MUNI
BADGER ARMY AMMUNITIONS DEPOT BARABOO WI ARMY 163.535
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149.265 149.325 163.485 164.50 238.8 293.2 311.0
321.0 413.45 USN 143.58 NG/OP 41.20 NG 142.305
142.335 142.905
BANGOR WA USN 36.53 36.57 36.63 36.87 138.575 138.82
138.95 138.975 139.50 139.52 140.00 140.025 140.175
140.20 140.225 140.475 140.50 140.525 140.575
140.65 140.75 140.825 140.875 140.90 140.925 140.95
141.575 141.95 141.975 142.025 142.265 143.50
143.675 258.9 265.1 282.8 291.4 350.7
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WX373.1 AF 40.17 40.19 148.065 148.20 148.515
148.545 149.15 149.325 149.565 149.97 149.975
150.225 162.25 163.375 163.46 163.485 163.51
164.10 164.175 164.50 164.70 164.96 164.985 165.11
165.16 168.00 173.435 173.535 173.56 173.585 252.1
272.0 294.4 300.6 373.1 383.3 413.00 413.15 413.20
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T 239.0 CG 164.30 164.985 363.5 380.8 381.7 381.8
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BATESVILLE REGNL AR AD 286.6
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125.4 269.6 271.3 285.6 353.7 363.8 383.1 385.6
327.5 H 327.5 WX 373.1 AF 138.075 138.165 138.175
148.035 148.095 148.185 148.245 148.455 148.50
149.05 149.15 149.225 149.525 150.195 150.225
150.255 150.315 150.345 164.50 269.6 287.0 373.1
383.1 385.6 396.1 413.45 420.0 SAC 311.0 321.0
BEAUFORT MCAS/MERRITT FLD SC S278.0 AD 120.0
125.6 301.2 314.0 T 126.2 340.2 360.2 G 126.2
336.4 OP 281.8 WX 264.5 USMC 34.55 36.05 138.60
138.74 138.95 138.96 139.545 140.10 140.25
140.325 140.46 140.875 140.895 141.00 143.625
143.715 143.725 148.27 148.29 148.31 148.425
150.00 150.11 150.125 150.15 150.375 236.0 243.9
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BELLANCA AIRCRAFT COMPANY ALEXANDRIA MN OP 123.35 OSCEOLA MN OP 123.35 123.4 123.55

BELLEFONTAINE OH USN 148.4Ø 15Ø.Ø75

BELL HELICOPTERS AMARILLO TX 35.1Ø 158.31

BELLINGHAM INT'L APT WA FSS 255.4 AF 235.5 24Ø.5 369.5 375.5 388.5 396.5

BELOIT APT WI AD 327.Ø

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BENEDUM APT CLARLSBRG WV AD 239.3 28Ø.1 T 28Ø.1

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BERT MOONEY APT BUTTE MT FSS 255.4

BETHESDA NAVAL MEDICAL CENTER MD USN 14Ø.Ø75 14Ø.2Ø 14Ø.225 14Ø.45 14Ø.55 14Ø.58 14Ø.65 14Ø.675 14Ø.775 14Ø.82 142.ØØØ 143.335 148.275 148.545 267.6 AMBULANCES 14Ø.275 SECURITY 14Ø.725 MEDEVAC HELICOPTERS 296.Ø

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BILLINGS LOGAN INT'L MT FSS 255.4 AD 284.6 T 257.8

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BIRMINGHAM MUNI AL FSS 255.4 AD 338.2 385.6 G 348.6 T 257.8 NG 38.7Ø ANG (87TH MANEUVER COMMAND) 163.46 163.485 163.585 165.135 39Ø.6 396.Ø ANG CP 287.3

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BLOSSOM POINT PROVING GROUNDS MD USN 14Ø.95 143.675 ARMY 38.45 141.4Ø 142.9Ø

BLUE GRASS APT LEX KY AD 259.3 298.9 T 257.8

BLUE GRASS ARMY DEPOT RICHMOND KY ARMY 163.535 165.Ø1 165.Ø35 165.185 173.46 173.485 354.3

BLUFF POINT VA USN 148.Ø25 142.8Ø

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BOB SIKES FLD CRESTVIEW FL FSS 255.4 AD 251.1 T 126.2 123.2 316.9 292.1 ARMY 162.25 417.535 FAIRCHILD INDUSTRIES 272.7 3Ø5.4

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BOLLING AFB WASH DC AF 4Ø.17 4Ø.19 138.Ø75 138.165 139.65 141.765 163.46 163.485 173.585 41Ø.Ø

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BOONE CNTY APT HARRISON AR FSS 255.4

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BOONE MUNI IA AD 252.9 NG 4Ø.6Ø 241.Ø

BORON AFS CA T132.5 284.7 ROCKWELL INT'L 462.925

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BOSTON NAVY BASE MA USN 32.Ø5 138.525 138.575 14Ø.Ø75 14Ø.65 14Ø.675 14Ø.725 14Ø.75 14Ø.775 14Ø.82 14Ø.825 148.35 148.95 149.Ø25 CG 165.26 165.335 172.3Ø 419.125

BOWERMAN APT HOQUIAM WA FSS 255.4

BOWERS FLD ELLENSBURG WA FSS 255.4

BOWLING GREEN-WARREN CNTY APT KY FSS 255.4

BOWMAN FLD LOUISVILLE KY FSS 255.4 AD 3Ø6.2 327.Ø T 248.2

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BRADFORD REGN'L APT PA FSS 255.4

BRADLEY INT'L APT WINDSOR LOCKS CT FSS 255.4 G 348.6 T 351.8 AD 327.1 323.2 E 322.3 ANG/CP 349.7 ANG 34.15 34.75 4Ø.65 46.75 49.85 142.155 148.Ø75 148.175 148.525 149.225 149.3Ø 149.3Ø 15Ø.125 15Ø.2Ø 15Ø.25 15Ø.3Ø 15Ø.35 163.485 173.585 321.Ø 413.45 NG/OP ("FURY OPERATIONS") 41.9Ø

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BREWTON AL USN 311.4

BRIMFIELD MA USN 3Ø.45 38.75

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BROOKLEY APT MOBILE AL FSS 255.4 AD 269.3 T 367.7

BROOKLYN NY USN 3Ø.13 14Ø.675 14Ø.725 14Ø.75 14Ø.825 141.ØØ 141.325 149.Ø95 15Ø.325 SECURITY 148.275

148.515 173.Ø5 173.41 173.585 251.9 287.2 413.425
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T 242.7
BROWNSVILLE INT'L APT TX AD 239.3 263.1 T 257.6
BROWNWOOD MUNI TX AD 269.4 FSS 255.4
BRUCE CAMPBELL FLD MADISON MS AD 317.7 319.2
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BRUNSWICK NAS ME AD 124.2 134.1 263.6 346.8 H 36Ø.2
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36.15 14Ø.25 14Ø.75 14Ø.895 143.715 148.275 236.4
238.1 251.3 253.2 256.2 257.5 263.4 263.6 264.5
272.8 273.8 277.7 281.2 285.Ø 285.8 288.1 292.95
293.Ø5 294.65 294.75 296.35 296.45 297.Ø5 298.Ø5
299.45 299.55 3Ø6.35 3Ø6.45 3Ø7.85 3Ø7.95 3Ø9.25
3Ø9.35 31Ø.4 31Ø.75 31Ø.85 325.4 35Ø.6 354.65
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14Ø.46 14Ø.82 148.375 313.8 341.Ø
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BUCKLEY ANGB AURORA CO DI 372.2 AD 119.3 3Ø7.3
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32.85 36.45 41.45 148.Ø35 148.215 148.325 148.45
148.515 149.2Ø5 149.25 149.3Ø 15Ø.225 163.485
163.51 163.535 164.Ø5 269.3 271.3 284.Ø 287.3
363.Ø 39Ø.Ø 39Ø.8 391.2 MSC 126.2 USN 32.65
36.55 281.2 3Ø2.6 344.2 363.4
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278.4 282.5 288.Ø 292.8 298.8 3Ø3.9 316.2 326.4
338.8 342.1 374.4 351.6 364.2 371.8 376.2 389.2
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BURBANK-GLENDALE-PASADENA APT CA AD 317.5 36Ø.6
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463.825 467.425
BURKE LAKEFRONT APR CLEVE OH AD 36Ø.6 T 319.8
BURLEY MUNI ID FSS 255.4
BURLINGTON CNTY AIRPARK MT HOLLY NJ AD 363.8
BURLINGTON INT'L APT VT DJ 293.7 FSS 255.4 G 348.6
AD 353.8 36Ø.8 372.9 392.1 396.1 T 257.8 388.2
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261.8 293.7 314.4
BURLINGTON MUNI IA FSS 255.4
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BUSH FLD AUGUSTA GA FSS 255.4 AD 27Ø.3 231.1 G348.6
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T 125.5 229.4 241.Ø ARMY 4Ø.1Ø 4Ø.91 41.5Ø 49.7Ø
141.25 141.8Ø 148.925 149.575 149.8Ø 15Ø.425
15Ø.525 163.575 164.985 165.185 173.Ø25 173.41
173.485 234.4 237.5 412.875 412.9Ø 413.425 413.825
AF 32.65 38.65 139.6Ø 139.7Ø 142.25 164.Ø5 286.4
29Ø.6 319.3 325.8

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E 133.75 37Ø.3 OP 285.Ø 347.5 WX 128.8 344.6
ARMY 3Ø.1Ø 3Ø.3Ø 36.9Ø 143.2Ø 241.1 241.2 242.5
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CALUMET AFS MI AF 148.Ø95 229.1 233.6 239.4 251.8
254.4 258.Ø 262.2 273.4 278.2 279.4 284.8 289.Ø
292.4 297.7 3Ø9.5 312.9 318.4 327.2 348.8 357.2
364.2 371.Ø 379.Ø 384.Ø 396.8
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(PECONIC FIELD) NY AD 12Ø.Ø5 239.3 G 121.9 T 121.3
126.2 127.15 128.65 34Ø.2 CG 381.8 USN 284.2 3ØØ.Ø
3ØØ.1 3ØØ.2 3ØØ.8 3Ø1.8 3Ø2.8 3Ø4.8 3Ø8.8 315.5
315.7 324.9 GRUMMAN OPERATIONS & FLITE TESTS 36.9Ø
123.2 123.25 123.4 123.45 151.865 153.35 268.8
275.2 281.2 3Ø9.8 314.6 345.4 36Ø.4 382.6 415.Ø
42Ø.Ø 425.Ø 434.Ø 45Ø.Ø
CAMBRIA AFS CA AF 149.3Ø
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CAMERON STATION ALEXANDRIA VA ARMY 4Ø.93 142.95
164.5Ø 167.975
CAMP A P HILL VA ARMY 36.85 4Ø.1Ø 126.2 139.175
141.4Ø 148.6Ø5 148.775 148.8Ø 148.815 165.535
165.Ø85 173.485 266.6 241.Ø
(TAYLORSVILLE IN ARMY 3Ø.1Ø 139.ØØ
3Ø 143.Ø5 143.1Ø 143.4Ø 173.56 226.5
AF 259.4 383.3
CAMP BLANDING FL ARMY 4Ø.5Ø 4Ø.9Ø 46.7Ø 139.3Ø
241.Ø 412.835 413.563
CAMPBELL AAF/FT CAMPBELL KY DI 372.2 S 3Ø2.2 293.Ø
AD 118.1 12Ø.9 139.9Ø 255.6 34Ø.9 363.8 G 121.8
275.8 T 126.2 236.6 241.Ø E 138.8 368.3 MAC 251.2
WX 344.6 FT CAMPBELL FLIGHT COORDINATING CENTER
46.8Ø 139.3 141.25 242.4 ARMY 3Ø.5Ø 36.3Ø 38.5Ø
4Ø.9Ø 46.75 138.1Ø 138.525 138.7Ø 138.75 138.85
139.Ø35 139.Ø75 139.125 139.2Ø 139.375 139.425
139.6Ø 139.75 14Ø.Ø25 14Ø.275 141.Ø25 141.1Ø 141.15
141.2Ø 141.3Ø 141.35 141.4Ø 141.45 141.5Ø 142.25
142.235 142.375 142.4Ø 142.425 142.45 142.475
142.875 142.9Ø 143.ØØ 143.Ø5 143.Ø75 143.1Ø 143.125
143.15 143.2Ø 143.25 143.3Ø 143.35 143.4Ø 148.515
148.575 148.59 148.625 148.675 148.775 148.825
148.875 148.925 149.5Ø5 149.575 149.625 149.675
149.725 149.775 149.85 149.875 15Ø.775 163.375
163.585 164.1Ø 164.2Ø 165.Ø6 165.Ø85 165.16 165.185
165.56 173.485 173.585 226.5 226.7 227.3 227.6
229.7 229.9 23Ø.1 23Ø.9 231.2 231.3 231.5 231.7
231.9 232.1 232.3 232.5 232.7 232.9 233.3 234.1
234.5 237.7 24Ø.9 241.3 241.5 241.75 241.9 242.1
242.5 242.7 243.9 244.15 244.3 244.5 245.15 245.35
245.55 245.75 245.95 246.15 246.35 246.55 246.75
246.95 247.15 247.55 247.75 265.5 3ØØ.1 3ØØ.2
3Ø4.3 356.4 361.4 365.1 366.6 367.3 37Ø.7 412.9
413.15 413.525 AF 163.51 275.8 34Ø.8
CAMP BULLIS TX AF 139.625 149.475 149.525 164.775
165.185 4Ø3.725 4Ø9.Ø5 4Ø9.9
CAMP CLARK MO ARMY 139.125 143.Ø5
CAMP CROWDER MO ARMY 139.125 143.Ø5
CAMP DAVID PRESIDENTIAL RETREAT MD HELICOPTERS
375.Ø
CAMP DODGE IA ARMY 139.ØØ 139.125
CAMP EDWARDS MA (INACTIVE) USN 3Ø.45 38.75
CAMP LEJEUNE JACKSONVILLE NC USMC 32.Ø5 36.15
36.8Ø 38.85 138.55 139.55 139.575 14Ø.Ø75 14Ø.125
14Ø.46 14Ø.475 14Ø.55 14Ø.975 141.95 141.975
142.Ø25 142.5Ø 142.52 142.525 142.55 142.575
142.675 142.775 142.84 142.85 143.5Ø 143.55 143.6Ø
148.275 148.29 148.35 149.45 15Ø.Ø7 15Ø.125 15Ø.775
262.6 264.2 265.8 267.4 268.2 27Ø.6 271.4 273.8 274.6
275.4 278.3 279.4 28Ø.2 28Ø.6 281.2 283.4 284.4 285.Ø
289.9 29Ø.Ø 291.4 3ØØ.2 3ØØ.3 3Ø4.2 3Ø5.8 3Ø5.9 3Ø6.7
3Ø7.4 3Ø8.2 3Ø9.Ø 3Ø9.8 31Ø.6 312.2 312.4 313.8 323.3
325.Ø 326.6 326.7 328.2 328.3 337.1 339.5 341.Ø 342.6
344.2 345.8 346.6 349.8 352.2 358.9 359.7 36Ø.4 361.Ø
361.1 361.2 363.4 363.6 384.2 386.6 42Ø.Ø CRASH 14Ø.1Ø
CAMP PARKS CA ARMY 15Ø.775 AF 139.7Ø 316.625 359.3
397.2
CAMP PEARY VA (CIA SCHOOL) 226.4 229.9
CAMP PENDLETON MCAF OCEANSIDE CA AD 132.2 134.1 29Ø.4
3ØØ.4 323.Ø 363.1 G 36Ø.2 T 126.2 34Ø.2 382.2 LONG-
RIFLE & CRESTLINE IMPACT TRAINING AREAS 36Ø.3 USMC
32.Ø5 32.45 32.61 32.8Ø 32.86 36.55 41.95 138.Ø25
138.15 138.375 138.6Ø 138.8Ø 139.675 14Ø.ØØ 14Ø.525
14Ø.71 14Ø.85 14Ø.925 142.Ø25 142.48 142.575 142.8Ø
148.3Ø 148.375 148.425 148.95 149.Ø1 149.Ø25 149.Ø5
149.275 149.3Ø 149.35 149.37 149.425 149.43 149.5Ø
15Ø.Ø9 15Ø.1Ø 15Ø.345 233.9 236.3 237.9 245.Ø 249.3
249.9 251.7 255.2 258.9 265.Ø 265.8 267.4 267.6 272.3
272.4 273.Ø 274.9 277.1 277.9 278.9 28Ø.6 281.7 283.4
299.3 3Ø1.9 3Ø7.4 3Ø7.5 31Ø.1 31Ø.2 312.7 313.3 313.8
321.9 325.4 326.8 336.2 336.5 336.9 337.1 338.1 34Ø.4
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CAMP RIPLEY MN ARMY 36.1Ø 36.7Ø 4Ø.9Ø
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149.5Ø5 15Ø.315 163.485 163.535 163.585 165.Ø1
165.Ø35 165.11 165.135 173.435 173.535 173.585 259.4
282.2 286.5 289.3 296.1 296.2 321.2 344.9 347.2 359.3
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CONRAD APT MT AF 150.375 165.01 165.03 300.8 418.025

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CORONA LABORATORIES NAVAL RESERVATION CA USN 150.09 233.75 233.85 236.25 236.35 237.95

CORONA MUNI CA AD 259.1 295.7

CORONADO NAVAL AMPHIBIAN BASE CA USN 36.55 40.80 273.3 413.0 413.15

CORPUS CHRISTI AERONAUT DEPOT MAINT CTR ARMY 229.4 248.2 407.225

CORPUS CHRISTI INT'L APT TX FSS 255.4 AD 233.7 307.9 363.1 385.6 G 348.6 T 257.8

CORPUS CHRISTI NAS/CGAS TX S 138.60 268.4 AD 125.4 120.9 307.9 363.1 385.6 G 348.0 T 126.2 135.3 340.2 360.2 E 314.8 WX 344.6 OP 346.8 SEARCH & RESCUE 123.1 282.8 CG 381.7 381.8 383.9 USN 40.55 138.60 138.775 139.575 140.075 140.10 140.325 140.65 140.70 140.775 140.975 141.00 141.10 142.55 148.35 148.95 149.375 150.40 264.4 265.8 284.2 299.6 304.2 305.8 306.6 320.4 340.8 342.8 349.8 355.4 358.8 384.4 ARMY 32.20 36.10 46.80 49.70 49.80 141.20 141.30 141.40 143.10 386.6

CORVALLIS MUNI OR AD 348.7

COSTA MESA ANG STATION CA ANG 149.15 235.5 240.5 252.5 369.5 375.5 388.5 390.5 394.5

COTULLA MUNI TX FSS 255.4

CRAIG AFB SELMA AL AF 142.155 165.135 165.16 173.51 173.585

CRAIG MUNI JAX FL FSS 255.4 AD 322.4 351.8 372.1 T 242.7 NG/OP 40.90 139.30 248.2 NG 40.50 139.15 241.0 263.2 273.8

CRANE NAVAL AMMUNITION DEPOT IN USN 138.60 149.01 149.07 149.37 149.40 150.075 SECURITY 42.26 42.42 148.275

CRAWFORDSVILLE MUNI IN AD 317.8

CREST APT KENT WA AF 245.0 250.0 270.0 280.0 290.0 300.0 320.0 328.0 337.5 350.0 360.0 370.0 390.0 BOEING OPS & FLITE TESTS 153.32 462.65 FIRE DEPT 154.25 154.34

CREWS FIELD RATON NM AD 353.8

CRISP CNTY-CORDELE APT GA AD 226.8

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CRYSTAL APT MINNEAPOLIS MN AD 335.5

CULBERSON CNTY APT TX AF 349.7

CURTIS WRIGHT CORP
FAIRFIELD CT 158.43
WOODRIDGE NJ 158.28 451.525

CUT BANK MUNI MT FSS 255.4

CUTLER ME USN RADIO STATION USN 138.96 140.04 FD 154.31

CUYAHOGA CNTY APT CLEVEL OH AD 360.6

DAHLGREN NAVAL ORDINANCE LABORATORY VA USN 138.75 138.82 140.475 140.825 141.95 142.025 142.05 142.80 142.90 148.975 150.15 233.9 250.0 300.0 350.0 398.0 ARMY 141.40 148.025 171.075

DALHART MUNI TX FSS 255.4

DALLAS-FT WORTH REGN'L APT TX AD 225.7 322.1 256.7 364.0 379.5 397.2 G 348.6 T 308.2 E 348.6

DALLAS LOVE FLD TX FSS 255.4 AD 252.9 372.1 G 348.6 T 239.3

DALLAS NAS/HENSLEY FLD TX AD 118.55 120.5 124.5 125.2 127.75 227.8 322.1 364.0 372.1 T 126.2 340.2 336.4 340.2 G 382.8 ANG/OP 303.0 ARMY/OP 34.70 NG COPTERS 46.80 242.6 USN 30.45 32.45 34.15 36.15 36.55 36.85 38.30 40.80 41.90 140.05 140.075 140.65 140.775 143.675 143.70 148.35 148.95 252.3 265.8 344.2 345.4 353.4 355.4 355.6 ARMY 139.025 139.10 139.15 142.45 143.40 241.0 304.4 AF 148.245 149.15 149.265 163.485 163.56 389.1 413.325 NASA/OP 49.83

DAM NECK VA USN 140.84 140.85 148.425 263.3 274.2 277.0 277.3 283.2 301.8 304.0 310.1 313.9 336.2 339.4 340.4 355.0 355.5 376.8 380.6 383.8

DANBURY MUNI CT AD 319.8

DANE CNTY REGN'L/TRUAX FLD MADISON WI S 278.3 G348.6 AD 318.1 350.3 396.0 T 257.8 ANG/OP 396.9 NG/OP 40.80 347.7 ANG AIR AMBULANCES 41.94 CRASH 173.585 MIL POLICE 163.56 AF 34.55 36.80 138.25 143.80 148.075 163.485 165.01 173.435 173.46 173.535 238.2 298.7 392.2

DANIEL FLD AUGUSTA GA AD 270.3

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DANVILLE MUNI VA FSS 255.4 AD 3Ø7.Ø

DANVILLE IL USN 36.85

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DAUGHERTY FLD CA SEE LONG BEACH

DAUPHIN ISLAND AFS AL AF 228.8 234.7 238.6 251.Ø 256.6 263.2 27Ø.4 275.Ø 278.8 292.7 3Ø2.4 3Ø6.4 325.5 338.4 344.Ø 356.Ø 369.Ø 375.1 386.2 392.8

DAVENPORT MUNI IA AD 259.3 T 226.4 NG/OP 4Ø.6Ø 241.Ø

DAVID W HOOKS MEM APT HOUSTON TX AD 29Ø.2 G 348.6 T 393.1

DAVIS-MONTHAN AFB TUCSON AZ S 27Ø.1 DI 372.2 WX239.8 AD 118.5 125.1 259.1 297.2 363.8 396.1 G 121.8 275.8 E 121.8 275.8 T 126.2 253.5 SECURITY 163.ØØ AF 3Ø.15 32.45 32.65 32.85 34.15 34.2Ø 34.55 34.6Ø 34.95 36.25 36.5Ø 36.54 36.8Ø 38.3Ø 4Ø.8Ø 41.45 41.65 41.9Ø 41.95 46.65 46.75 46.8Ø 49.75 49.8Ø 49.9Ø 138.Ø5 138.Ø75 138.165 138.175 138.2Ø 138.9Ø 139.65 139.7Ø 14Ø.4Ø 142.2Ø 143.76 143.8Ø 143.88 148.Ø65 148.Ø95 148.225 148.3Ø 148.455 148.515 148.545 149.15 149.15 149.175 149.25 149.31 15Ø.15 15Ø.325 15Ø.35 162.25 163.585 164.2Ø 164.985 165.Ø1 165.185 173.435 173.485 173.585 225.3 251.2 255.7 255.8 259.4 259.6 262.3 266.2 268.1 271.1 271.9 276.6 285.2 286.4 289.3 292.5 296.2 3ØØ.8 311.Ø 314.3 321.Ø 321.2 327.7 341.5 347.2 351.4 358.2 361.5 361.6 378.Ø 379.4 381.3 413.15 413.2 413.3 ARMY 4Ø7.4 MSC 139.9Ø

DAVISON AAF/FT BELVOIR VA ARMY ORDINANCE SCHOOL & ARMY TEST/EVALUATION COMMAND AD 118.1 119.85 322.3 343.7 G 121.9 245.2 T 126.3 241.Ø 229.4 E 245.2 MIL POLICE 15Ø.555 FIRE DEPT 166.75 TRANSP 163.425 ARMY 4Ø.1Ø 49.8Ø 141.35 141.425 142.35 143.2Ø 148.6Ø5 148.755 148.815 15Ø.7Ø 164.15 241.Ø 4Ø7.475 DEFENSE CIVIL PREPAREDNESS AGCY 167.975

DAYTONA BCH REGN'L APT FL AD 257.8 322.3 381.5 387.Ø G 348.6 T 257.8

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DECATUR APT IL FSS 255.4 G 392.1 AD 392.1 T 392.1

DECIBEL PRODUCTS COMPANY DALLAS TX 151.145 159.225 458.Ø5 956.ØØ

DEFENSE CIVIL PREPAREDNESS AGENCY
DENTON TX 169.875
MAYNARD MA 169.875
OLNEY MD 167.975 173.185

DEFENSE ELECTRONICS SUPPLY CENTER DAYTON OH 164.Ø25 165.Ø35 173.46

DEFENSE GENERAL SUPPLY CENTER RICHMOND VA 139.ØØ 139.4Ø 139.65 15Ø.625 164.25 165.185 173.51

DEFENSE LOGISTICS AGCY HOUSTON TX ARMY 139.Ø25 226.6

DEFIANCE MEM APT OH AD 321.1

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DEL RIO INT'L APT TX AD 259.1 363.8

DEMING MUNI NM FSS 255.4

DEPT OF COMMERCE SILVER SPRING MD 163.325 163.35 166.125 169.35

DEPT OF ENERGY EMERGENCY COMMAND CENTER GERMANTOWN MD 4Ø.47 162.Ø5 162.225 164.225 164.375 169.95 17Ø.75 236.6 41Ø.35

DERBY FLD LOVELOCK NV FSS 255.4

DESERT ROCK APT MERCURY NV AF 255.8 261.1

DES MOINES MUNI IA AD 252.9 272.7 36Ø.7 393.Ø G 348.6 T 257.8 E 321.1 ANG/OP & MAINTENANCE 41.45 26Ø.4 ANG 34.55 36.45 36.85 163.46 163.585 173.56 252.1

DETROIT ARSENAL ARMY TANK-AUTOMOTIVE MATERIAL READINESS COMMAND MICH ARMY MISSILE PLANT ARMY 34.5Ø 139.ØØ 139.2Ø 163.535 165.Ø6 165.185 173.46 231.9 393.8 AMERICAN MOTORS 461.275 CHRYSLER 462.525 464.425 464.525 GEN MOTORS 35.9Ø 151.625 153.2Ø 153.32 158.46 461.187 461.275 461.617 462.275 462.3Ø 462.5Ø 462.9Ø 464.925

DETROIT CITY APT MI FSS 255.4 AD 363.2 T 257.8

DETROIT METRO WAYNE CNTY APT MI AD 348.3 363.2 T 287.1

DETROIT MI USN 34.15 32.45 14Ø.Ø75 14Ø.65 14Ø.775 14Ø.9Ø 141.ØØ 143.725 148.325 148.35 148.95 148.975 313.Ø 318.6 32Ø.2 321.8 336.4 346.8 348.Ø

DEWITT FLD OLDTOWN MUNI ME AD 39Ø.9

DICKINSON MUNI ND FSS 255.4

DILLANT HOPKINS APT KEENE NH AD 269.5

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DOBBINS AFB/ATLANTA NAS OP 34Ø.2 USN 36.85 138.96 139.545 14Ø.895 15Ø.Ø9 279.2 295.1 36Ø.2

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DOVER AFB DE DI 372.2 S 273.5 AD 135.15 128.Ø 139.9Ø 339.1 324.5 G 121.9 225.4 T 126.35 327.5 H 125.9 359.3 E 125.55 289.4 WX 342.5 CP 13Ø.65 349.4 SECURITY 172.3Ø AF 138.Ø45 138.Ø75 139.1Ø5 138.165 138.175 138.2Ø 138.275 138.4Ø5 139.65 139.9Ø 148.45 148.545 149.475 163.585 165.11 173.435 173.56 173.585 251.9 27Ø.1 363.8 41Ø.25 413.Ø25 413.5Ø 413.15 413.2 413.275

DOVER NJ USN 34.95

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DRAKE FLD FAYETTEVILLE AR FSS 255.4 T/AD 369.Ø

DRAUGHTON-MILLER MUNI TEMPLE TX AD 321.6

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DRIVER NAS VA USN 14Ø.175 149.Ø5 149.35

DUBOIS-JEFF CNTY APT PA FSS 255.4 AD 317.4

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DULLES INT'L APT WASH DC AD 351.1 384.9 39Ø.9 G 348.6 T 388.Ø AF 311.Ø 321.Ø 4Ø9.2Ø NASA 17Ø.175 SECURITY 165.71

DULUTH INT'L APT MN DI 372.2 AD 255.9 285.6 T 257.8 WX 342.5 AF 138.Ø75 138.165 138.175 148.Ø65 148.Ø95 148.185 148.245 148.455 148.485 148.515 148.545 149.15 165.11 173.535 251.9 288.9 298.3 348.8 379.Ø 413.15

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DUPAGE APT IL FSS 255.4 AD 3Ø7.2 T 257.8

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EGLIN AF AUX #9 FLA AF 32.65 34.15 36.45 36.85 41.45 46.65 46.75 138.1Ø 138.275 138.5Ø 139.9Ø 14Ø.4Ø 142.125 143.75 148.Ø95 148.215 148.245 148.455 15Ø.135 15Ø.225 15Ø.375 163.485 17Ø.575 173.51 173.635 242.Ø 39Ø.Ø 392.2 41Ø.ØØ
EGLIN AFB VALPARAISO FL STRIKE COMMAND HQ DI 372.2 AD 1Ø9.8 125.1 358.3 G 121.8 335.8 T 118.2 348.4 E 127.7 388.8 CP 372.8 39Ø.9 WX 342.5 SECURITY 163.375 TRANSP 163.46 FD/CRASH 173.585 HOSPITAL 173.51 AIRCRAFT MAINT 148.545 15Ø.15 FUELS 15Ø.255 EXPLOSIVES ORDINANCE 165.11 WEAPONS TEST 173.56 HELICOPT RESCUE OP 15Ø.195 FEDERAL PRISON 17Ø.875 DEPT OF ENERGY 138.61 14Ø.61 143.41 143.86 167.85 168.45 239.4 242.Ø 248.6 252.4 259.7 41Ø.ØØ 411.ØØ AF 32.1Ø 32.43 32.95 34.6Ø 46.85 49.85 138.Ø15 138.Ø45 138.14 138.24 138.4Ø 138.9Ø 139.14 139.65 139.8Ø 141.2Ø 141.42 141.48 141.55 141.66 141.9Ø 142.155 142.2Ø 142.3Ø 143.15 143.46 143.Ø35 148.Ø65 148.185 148.515 148.575 148.Ø65 148.755 148.815 149.175 149.2Ø5 149.235 149.265 149.31 149.475 149.535 149.565 149.825 15Ø.165 15Ø.285 15Ø.315 15Ø.345 163.485 163.51 163.535 163.585 164.175 164.96 165.Ø1 165.Ø35 165.16 165.135 165.185 167.825 171.385 173.435 153.535 173.61 24Ø.2 25Ø.9 251.2 251.9 257.Ø 259.2 26Ø.7 262.3 264.7 266.Ø 268.Ø 272.Ø 276.Ø 279.7 28Ø.5 284.1 287.2 289.Ø 29Ø.9 291.8 293.4 294.6 295.1 295.2 3Ø1.7 311.Ø 311.2 314.4 315.Ø 315.9 316.62 317.27 317.27 317.9 319.6 324.15 324.7 325.9 34Ø.9 341.6 341.9 344.8 347.3 349.6 359.2 361.5 364.Ø 376.Ø 378.Ø 377.8 379.7 381.3 383.Ø 384.8 385.7 385.9 388.1 389.1 391.2 394.8 397.Ø 398.2 4Ø7.ØØ 4Ø7.4Ø 4Ø7.5Ø 4Ø9.ØØ 41Ø.ØØ 412.ØØ 413.ØØ 413.Ø75 413.15 413.175 413.2Ø 413.3Ø 413.275 413.45 415.ØØ 418.ØØ ARMY 4Ø.1Ø 46.7Ø 46.9Ø 139Ø8 142.925 143.175 148.9Ø
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ELECTROCOM INC
COMPTON CA 464.Ø5
MONTROSE CA 464.Ø5
POMONA CA 153.Ø8
SAN DIEGO CA 35.98 123.3 123.4 123.45 123.5 151.895 153.26 158.43 462.15 464.55 471.562 471.587 471.612
SAN FRANCISCO CA 462.8Ø
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ELLSWORTH AFB RAPID CITY SD DI 372.2 AD 119.5 125.3 271.3 396.Ø G 275.8 T 126.2 236.6 253.5 E 121.1 289.4 WX 375.2 AIR POLICE 163.535 SECURITY 163.485 SNOW PLOWING 148.545 MOBILE TELEPHONES 149.565 CIVIL ENGINEERS 15Ø.175 15Ø.315 171.775 AF 138.Ø75 148.Ø65 148.245 148.35 148.455 148.485 148.95 149.15 149.225 149.275 15Ø.1Ø 163.ØØ 163.375 163.46 164.5Ø 165.Ø6 172.725 174.455 173.56 173.585 26Ø.2 271.9 3Ø1.75 3Ø8.8 311.Ø 314.3 321.Ø 4Ø9.9Ø 413.15 413.45 COPTER OP ("BEAVER") 266.2
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EL PASO INT'L TX FSS 255.4 AD 263.Ø 3Ø7.Ø 353.5 379.1 G 348.6 T 257.8 E 379.1 AF 228.9 26Ø.8
EL SEGUNDO APT CA HUGHES AIRCRAFT 153.38 451.625 465.ØØ 467.45 ROCKWELL INT'L 154.625 462.275 462.325 472.837 AF 243.725 243.885 316.625 316.785
EL TORO MCAS SANTA ANA CA DI 328.1 S 117.2 284.2 AD 124.1 128.1 132.7 268.7 38Ø.2 381.4 G 383.8 T 133.1 271.7 36Ø.2 H 133.35 E 3Ø1.3 WX 344.6 USMC 32.Ø5 41.95 138.575 138.625 138.72 139.475 139.5Ø 139.525 139.575 14Ø.Ø5 14Ø.1Ø 14Ø.22 14Ø.515 14Ø.715 14Ø.85 14Ø.925 141.925 142.Ø25 142.575 142.625 142.75 142.86 143.525 143.575 143.625 143.725 148.325 148.375 148.4Ø 148.425 148.975 149.Ø75 149.125 149.4Ø 149.425 15Ø.345 233.9 236.3 237.9 258.9 262.6 263.1 268.7 269.6 272.3 272.4 273.Ø 273.8 274.9 277.Ø 277.1 277.9 279.3 281.Ø 281.2 281.7 281.9 283.4 293.1 299.3 299.5 3Ø2.Ø 3Ø4.Ø 3Ø5.4 3Ø7.5 31Ø.2 31Ø.6 31Ø.9 312.4 312.7 313.8 318.7 325.4 336.2 336.3 336.5 338.1 34Ø.2 34Ø.4 343.9 344.2 345.Ø 347.8 35Ø.1 35Ø.5 352.3 353.6 359.5 362.2 38Ø.8 385.Ø 387.4 413.2Ø
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173.56 173.66 173.685 173.785 232.9 239.4 24Ø.2
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354.6 362.6 363.6 364.2 369.2 383.4 385.Ø AF 234.7
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155.28 163.46 163.51 165.Ø1 165.11 173.435 173.56
173.585 251.9 262.Ø 28Ø.5 289.1 293.4 294.9 311.Ø
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LITTLE ROCK AFB JACKSONVILLE AR DI 372,2 S 271.3 G 275.8 AD 119.5 123.85 124.2 3Ø6.2 34Ø.9 372.8 378.8 353.6 385.6 T 126.2 348.4 CP 349.4 WX 239.8 AF 41.9Ø 49.8Ø 138.Ø75 138.165 138.175 138.7Ø 139.6Ø 139.65 139.7Ø 14Ø.4Ø 141.8Ø 142.2Ø 142.25 143.8Ø 143.88 148.Ø35 148.Ø65 148.Ø95 148.2Ø 148.3Ø 148.455 148.515 148.55 148.95 149.2Ø 149.225 149.26 149.31 149.475 149.5Ø5 149.565 15Ø.Ø5 15Ø.15 15Ø.2Ø 15Ø.315 15Ø.35 163.485 163.51 163.585 164.5Ø 165.Ø1 165.11 173.1Ø 173.435 173.535 173.56 173.585 255,7 262.3 266.2 271.1 271.9 284.Ø 3Ø3.Ø 3Ø8.8 311.Ø 314.2 314.3 321.Ø 34Ø.6 34Ø.8 341.5 342.3 342.4 369.2 413.1Ø 413.15 413.425 413.45

LITTON SYSTEMS CANOGA PARK CA 232.Ø 241.Ø 349.Ø CULVER CITY CA 153.23 SAN CARLOS CA 154.6Ø VAN NUYS CA 153.23 WOODLAND HILLS CA 153.23 158.46

LIVERMORE MUNI CA AD 354.1 363.2 T 368.7

LOCKHEED AEROSPACE COMPANY BEAUMONT TX 35.7Ø LOS ANGELES CA 123.15 123.25 123.35 123.45 469.925 USN LIASON 166.75 173.5Ø PALO ALTO CA 153.2Ø REDLANDS CA 35.7Ø SEATTLE WA 153.Ø5 153.2Ø 462.3Ø

LOCKPORT AFS NY AF 148.45 228.7 235.8 239.2 254.8 278.4 282.5 288.Ø 292.8 298.8 3Ø3.9 316.2 326.4 338.8 342.1 347.4 351.6 364.2 371.8 376.2 389.2 394.8 399.Ø

LOGAN INT'L APT BOSTON MA FSS 255.4 AD 343.6 382.Ø 263.1 T 257.8 AF 321.Ø 413.45

LONDON-CORBIN-MAGEE FLD KY FSS 255.4 AD 317.4

LONE STAR ARMY AMMUNITION DEPOT TEXARKANA TX ARMY 149.7Ø 15Ø.75 163.56 164.Ø5 165.Ø85 165.185 165.Ø6 165.Ø85 165.185 165.71 173.41 173.46

LONG BEACH APT/DAUGHERTY FLD CA AD 343.9 T/G 257.6 MCDONNELL DOUGLAS COMPANY OP & TEST FLITES 3Ø.Ø5 32.5Ø 41.95 49.8Ø 122.Ø 123.2 123.275 123.3 123.4 123.425 123.45 123.55 124.4 125.95 13Ø.Ø 132.1 135.6 14Ø.ØØ 142.ØØ 15Ø.ØØ 152.ØØ 153.Ø5 153.Ø8 156.ØØ 171.ØØ 23Ø.Ø 24Ø.Ø 25Ø.Ø 26Ø.Ø 27Ø.Ø 275.2 28Ø.Ø 29Ø.Ø 3ØØ.Ø 314.6 36Ø.Ø 382.6

LONG BEACH NAVAL BASE CA USN 36.53 36.63 36.87 4Ø.53 4Ø.79 138.65 138.75 138.775 138.79 138.825 14Ø.Ø25 14Ø.175 14Ø.32 14Ø.325 14Ø.34 14Ø.48 14Ø.76 14Ø.8Ø 14Ø.975 142.ØØ 142.Ø25 142.Ø75 142.1Ø 142.525 142.775 143.675 148.99 149.Ø7 149.13 149.43 149.49 15Ø.Ø75 25Ø.9 251.4 272.9 273.Ø 277.1 277.9 283.3 3ØØ.5 3Ø8.5 312.7 313.7 313.8 318.5 321.8 323.5 326.5 328.2 336.2 339.7 34Ø.4 34Ø.5 342.6 345.1 345.8 346.6 346.9 353.Ø 353.1 353.4 354.6 355.Ø 357.8 358.Ø 358.1 358.7 359.4 359.7 36Ø.4 361.Ø 361.8 362.Ø 362.5 38Ø.7 38Ø.9 382.2 382.5 382.9 383.4 383.5 384.1 384.2 385.Ø 385.3 387.4 4Ø6.375 4Ø9.125

LONGHORN ARMY AMMUNITION PLANT MARSHALL TX ARMY 149.145 163.585 165.Ø1

LONG ISLAND MACARTHUR APT ISLIP NY FSS 255,4 AD 339.Ø 367.2 T 233.2 239.3 NG 41.ØØ 241.Ø 242.4 NG COPTER TO COPTER 41.Ø5

LORAIN CNTY REGN'L APT ELYRIA OH AD 36Ø.6

LORING AFB LIMESTONE ME DI 372.2 AD 1Ø8.4 124.7 359.3 363.8 G 275.8 T 126.2 236.6 294.7 WX 342.5 CP/42ND BOMB WING 311.Ø 321.Ø AF 138.Ø75 138.165 138.175 148.Ø65 148.175 148.245 148.525 149.2Ø5 149.25 149.565 163.375 163.485 163.535 163.565 163.625 164.1Ø 164.5Ø 165.Ø1 165.Ø35 165.11 165.135 173.435 173.585 236.6 238.8 318.1 324.5 335.8 339.1 349.Ø 413.15 413.45 DEPT OF ENERGY 122.9 167.85 168.45 384.8

LORTON VA DEFENSE CIVIL PREPAREDNESS AGENCY 167.975 GEN SERVICES ADMIN 163.Ø75 163.175 168.575

LOS ALAMITOS AAF RESERVE CENTER CA AD 124.65 343.9 G 126.2 352.4 T 123.85 23Ø.2 346.8 OP 237.2 ARMY 41.5Ø 142.375 143.Ø5 34Ø.1 347.5 356.6

LOS ALAMOS SCIENCE LAB NM DEPT OF ENERGY 34.14 4Ø.47 122.8 139.77 14Ø.68 142.23 148.47 162.61 163.375 164.1Ø 164.225 164.275 164.325 164.35 164.375 164.4Ø 164.425 164.45 164.5Ø 165,26 166.25 166.325 166.825 167.825 167.85 167.875 168.45 17Ø.725 171.2Ø 171.26 171.325 171.385 171.525 171.625 172.3Ø 24Ø.2 248.6 256.2 257.Ø 259.7 315.1

406.225 406.375 406.75 407.175 408.125 408.175
410.00 416.05 DEF CIV PREP AGCY 167.975
LOS ANGELES CGAS SEE LOS ANGELES INT'L
LOS ANGELES INT'L APT CA FSS 255.4 AD 269.0 360.7
381.6 363.2 385.4 G 327.0 T 239.3 379.1 E 327.0
CG SEARCH/RESCUE 282.8 CG 381.7 381.8 383.9
AF/OP ("SAMSO OP") 372.2 AF 138.075 138.175 148.185
148.55 149.205 163.46 163.485 165.01 252.4
USN 264.1 314.6 382.6
L O SIMENSTAD OSCEOLA WI AD 353.7
LOST NATION APT WILLOUGHBY OH AD 360.6
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LOVELL FLD CHATTANOOGA TN AD 321.2 379.1 G 348.6
T 257.8 E 348.6 AF 150.15 150.225
LOWE AHP/FT RUCKER AL S 364.9 AD 128.55 133.45
237.5 G 265.6 T 43.70 141.30 237.3 ARMY 143.375
173.41 229.4
LOWRY AFB DENVER CO MEDICS 173.56 FD/CRASH
173.585 AF 40.17 40.19 138.075 138.165 138.175
139.65 163.00 163.46 163.485 163.585 164.96
165.135 409.60 413.00
LTV AEROSPACE DALLAS TX 153.08 153.32 462.25 462.225
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LUBBOCK INT'L APT TX FSS 255.4 AD 335.6 351.8
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126.8 119.2 120.7 124.1 379.8 269.6 256.9 G 335.8
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FD/CRASH 173.585 SECURITY 163.485 NORTH AMERICAN
AIR DEFENSE (NORAD) ("ARIZONA PETE") 254.2 260.8
270.2 DEPT OF ENERGY 167.85 168.45 BOMBING RANGE
296.3 AF 36.50 41.95 138.075 138.165 138.175
138.40 139.65 148.035 148.10 148.175 148.185
148.30 148.45 148.545 149.00 149.10 149.15 148.20
149.265 149.40 149.565 150.20 150.315 150.35
165.01 165.085 165.11 173.535 173.56 242.1 242.3
252.9 254.5 257.2 259.4 259.0 264.7 266.4 276.0 276.9
279.9 283.8 285.2 287.1 288.7 291.1 294.9 295.3 296.1
301.4 301.6 308.9 311.2 316.9 321.2 322.6 324.2 325.7
335.9 337.7 338.5 338.9 343.0 343.4 347.2 349.0 351.0
352.8 358.2 361.6 369.1 371.1 372.9 373.1 381.3 384.7
388.9 398.8 390.1 391.2 413.15
LUMBERTON MUNI NC AD 295.0 340.7
LUMPKIN CNTY APT DAHLONEGA GA ARMY 139.025 226.5 227.4
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LYNCHBURG MUNI/GLENN FLD VA AD 348.3 T 257.8

MACDILL AFB TAMPA FL DI 372.2 S 270.1 AD 118.8 126.0
134.1 269.1 279.6 354.0 G 275.8 T 126.2 294.7 WX 344.6
TAC/CP ("RAYMOND 19") 381.3 HURRICANE HUNTERS 304.8
AF 139.875 139.975 141.80 142.20 143.80 143.825
148.095 148.185 148.455 148.485 149.175 149.295 149.325
150.20 150.285 150.315 163.51 163.585 165.01 165.11
165.185 173.435 173.51 173.535 173.56 228.8 234.7 238.5
251.0 256.6 263.2 268.1 270.4 271.1 272.0 275.0 276.8
278.6 280.5 287.3 287.8 283.7 292.1 292.7 297.1 297.5
298.5 300.9 302.4 306.4 311.0 316.9 321.0 321.2 325.5
325.8 327.3 338.4 344.0 348.1 356.0 364.2 369.0 375.1
376.1 381.0 386.2 389.1 391.1 392.8 397.1 398.1
407.375 407.50 413.15 413.20 413.30 413.45 USN 275.7
283.4 307.7 339.6 358.6 ARMY 407.30
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MADISONVILLE MUNI KY AD 226.4
MAHLON SWEET FLD EUGENE OR FSS 255.4 AD 348.7 T 371.9
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AF 257.0 291.8 293.25 319.6 348.85 AFL/CIO OP 349.6
MAKAH AFS NEAH BAY WA AF 228.6 235.9 238.6 239.1 239.7
252.0 260.9 261.4 265.4 271.0 277.6 278.4 282.6 287.7
288.4 293.6 293.8 328.0 348.2 351.5 355.2 359.8 364.2
374.0 386.0 390.2 394.2 397.8
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MALMSTROM AFB GRT FLS MT DI 372.2 118.1 121.1 259.1
290.3 128.1 317.6 G 275.8 T 116.3 126.2 253.5 WX239.8
AF 40.17 40.19 138.075 138.165 138.175 138.235
138.925 148.065 148.95 149.235 149.265 149.505
149.535 149.565 150.10 150.275 150.50 163.375 163.485
163.51 163.535 163.56 163.585 164.50 165.11 165.135
173.435 173.535 173.56 173.585 228.8 228.9 234.6
234.7 238.4 238.5 251.0 254.2 256.6 260.8 263.2 266.2
267.0 270.2 270.4 270.4 271.9 274.4 275.0 281.6 287.8
288.6 292.7 298.5 300.8 302.4 306.4 308.8 309.4 311.0
314.3 316.3 320.6 321.0 324.0 325.5 327.9 336.6 338.4
341.8 344.0 344.9 346.2 351.35 356.0 364.2 369.0
375.1 377.0 386.2 387.8 392.8 398.0 407.325 407.375
407.425 407.525 412.875 413.15 413.325 413.425
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MARCH AFB RIVERSIDE CA DI 372.2 S 113.4 270.1 WX 239.8
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253.5 H 125.5 269.3 351.1 AFR/OP 252.1 AF 138.075
138.125 138.165 138.175 138.30 139.875 143.825
148.065 148.175 148.245 148.475 148.515 149.175
149.235 149.475 149.535 150.05 150.175 150.255
150.345 163.46 163.535 164.50 164.70 165.06 165.16
173.51 242.0 311.0 321.0 324.1 359.0 407.475 413.075
413.20 413.30 413.325 413.425 413.45 MED EMERGENCIES
155.265
MARE ISLAND NAVAL STATION CA USN 36.53 36.57 36.63
36.87 138.525 138.575 138.80 140.025 140.075 140.15
140.20 140.45 140.475 140.525 140.65 140.775 140.975
142.10 142.50 142.525 142.55 143.65 148.35 148.375
149.43 150.40 243.6 258.7 262.6 270.6 275.0 281.0
309.0 310.6 386.8 412.975
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163.25 163.56 164.20 164.50 164.985 165.01 165.06
165.185 173.46 173.51 226.5 228.9 233.2 237.3 242.4
265.6 278.8 286.2 347.2 407.575 412.90 413.15
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AD 119.1 123.7 124.5 127.4 253.5 259.1 284.4 285.6
340.9 363.8 372.8 G 120.65 275.8 T 120.65 126.2
236.6 348.4 CP 311.0 321.0 AFR ("DARR CONTROL") 351.2
NG/OP ("SPARTAN CONTROL") 41.00 AF 138.075 138.165
138.175 139.05 139.85 148.065 148.125 148.17 148.275
148.475 148.485 148.525 148.575 149.175 149.265
149.50 149.565 163.56 164.50 165.135 165.16 165.41
173.51 173.56 173.585 267.9 351.2 379.5 413.20
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MATHIS FLD SAN ANGELO TX FSS 255.4 AD 257.8 354.1
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G 289.4 T 118.15 253.5 AF 34.20 38.65 40.17 40.19
46.85 138.075 138.165 138.175 139.65 139.70 141.80
148.065 148.215 148.51 149.175 149.475 150.275
150.315 163.46 163.485 164.175 165.135 173.435
173.535 307.8 314.2 413.20 413.30 413.40
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140.60 140.675 140.75 140.825 140.925 140.95 140.975
141.00 141.95 142.52 142.575 142.80 148.325 149.05
149.075 149.37 150.075 237.8 250.8 264.3 268.6 267.4
273.0 275.7 280.6 283.4 289.8 300.5 307.7 315.7 326.6
338.1 339.6 344.5 348.1 356.2 358.6 362.6 382.2 384.5
385.0
MC ALESTER MUNI OK FSS 255.4

MC ALESTER NAVAL AMMUNITION DEPOT OK USN 139.5Ø 14Ø.Ø4 14Ø.125 143.52 148.29
MC CAIN FLD SEE MERIDIAN NAS
MC CARRAN INT'L APT LAS VEGAS NV FSS 255.4 AD 295.Ø 335.5 387.Ø T/G 257.8 TERMINAL CNTRL AREA 284.6 AF 311.Ø
MC CHORD AFB TACOMA WA DI 372.2 S 1Ø9.6 27Ø.1 AD 12Ø.1 121.1 125.4 126.5 269.6 29Ø.9 323.2 391.9 G 257.8 T 1Ø9.6 124.8 236.6 259.3 CP 13Ø.65 349.4 WX 342.5 AF 4Ø.17 4Ø.19 46.75 138.Ø75 138.1Ø 138.165 138.175 139.ØØ 142.2Ø 142.275 143.775 148.Ø95 148.215 148.48 148.55 148.71 149.175 149.2Ø5 149.325 149.475 149.5Ø5 15Ø.195 15Ø.25 15Ø.345 163.46 163.535 165.11 165.16 173.435 173.535 173.585 228.6 235.9 238.6 239.7 251.9 252.Ø 26Ø.9 261.4 261.9 265.4 271.Ø 277.6 282.6 287.7 288.4 294.4 293.6 293.8 298.1 298.4 311.Ø 328.Ø 34Ø.6 341.5 342.3 348.2 348.4 351.5 355.2 359.8 364.2 374.Ø 386.Ø 39Ø.2 394.2 397.8 399.8 4Ø7.425 413.Ø75 413.125 413.15 413.3Ø 413.45
MC CLELLAN AFB SACRAMENTO CA DI 372.2 S 269.9 G 255.4 AD 124.5 128.6 127.4 253.5 284.Ø 285.6 32Ø.1 34Ø.9 353.7 363.8 381.2 271.3 H 134.1 T 124.6 236.6 369.2 CP ("FOSDICK") 377.8 CG 15Ø.285 169.25 381.7 381.8 DEPT ENERGY 168.45 TO CASTLE AFB 165.Ø6 AF 46.85 138.Ø75 138.165 138.175 138.2Ø 139.Ø5 148.845 149.Ø25 149.2Ø5 149.475 15Ø.285 163.485 167.85 168.ØØ 173.435 233.6 236.Ø 251.9 252.22 252.42 252.8 254.8 259.Ø 276.Ø 287.4 292.1 3Ø3.Ø 311.Ø 314.6 327.2 339.Ø 351.6 364.Ø 372.8 379.Ø 382.6 384.7 391.2 399.8 399.9 4Ø7.4Ø 4Ø7.425 4Ø7.475 4Ø9.Ø5 4Ø9.125 41Ø.2Ø 413.ØØ 413.Ø25 413.125 413.2Ø 413.275 413.3Ø 413.325 413.375 413.45
MC COMB-PIKE CNTY/LEWIS FLD MS FSS 255.4 AD 281.5
MC CONNELL AFB WICHITA KS DI 372.2 S 119.5 269.9 AD 125.Ø 125.7 126.7 134.45 134.8 281.5 3Ø7.9 321.7 G 121.6 275.8 T 126.2 236.6 295.7 WX 375.2 AF 3Ø.1Ø 32.9Ø 34.5Ø 36.5Ø 38.9Ø 41.5Ø 41.9Ø 48.9Ø 138.Ø75 138.165 138.175 14Ø.4Ø 143.88 148.Ø65 148.3Ø 148.545 149.2Ø5 149.31 149.325 149.475 149.565 15Ø.195 15Ø.315 15Ø.35 163.46 163.485 163.51 163.585 164.5Ø 173.56 173.585 255.7 262.3 266.2 271.1 271.9 275.2 295.7 3Ø1.6 3Ø2.2 3Ø8.Ø 3Ø8.8 311.Ø 314.3 321.Ø 339.3 351.1 39Ø.Ø 413.15 413.45
MC COY AAF/FT MC COY WI ARMY RESERVE AD 125.6 3Ø7.1 T 38.5Ø 41.7Ø 124.6 229.6 241.Ø RANGE 49.8Ø 247.4 ARMY RESERVE 36.11 36.53 36.69 139.125 139.3Ø 141.35 143.Ø5 143.225 143.25 143.4Ø 163.56 165.Ø35 165.Ø6 165.Ø85 165.185 165.61 173.41 173.485 229.4 299.9 347.7 AF 314.2
MC DONNELL DOUGLAS COMPANY (ALSO SEE OTHER LOCATIONS)
KNOB NOSTER MO 123.55
ROBERTSON MO 153.29
ST LOUIS MO 33.14 35.Ø2 35.14 35.92 42.98 154.57 173.2Ø 173.395 462.225
TULSA OK 123.375 123.55
WRIGHTWOOD CA 123.2 123.275 123.3 123.4 123.425 123.45 123.55 275.2
MC ENTIRE ANG BASE COLUMBIA SC DI 372.2 AD 125.4 327.3 G 395.8 T 126.2 253.5 ANG 32.65 34.15 34.55 4Ø.15 138.4Ø 148.Ø65 148.515 149.19 149.3Ø 149.475 253.5 287.7 298.3 365.5 378.5 379.5 388.5 395.1 398.5
MC GHEE TYSON APT KNOXVL TN FSS 255.4 AD 353.6 36Ø.8 T 257.8 G 348.6 ANG/OP 143.8Ø 3Ø3.Ø AF 143.8Ø 163.46 163.485 163.51 163.535 163.535 164.5Ø 165.Ø1 165.11 235.5 311.Ø 321.Ø 375.5 388.5 398.5
MC GREGOR NM ARMY 3Ø.45 32.Ø5 139.325 139.35 141.175 141.3Ø 149.37 165.135 172.825 241.1 25Ø.7 264.5 277.5 3Ø3.5 31Ø.5 315.5 323.5 326.5 336.5 346.5 367.5 37Ø.5 389.5 397.5 416.425
MC GUIRE AFB WRIGHTSTOWN NJ DI 372.2 S 11Ø.6 271.8 AD 11Ø.6 124.85 127.5 259.3 363.8 388.2 WX 239.8 G 121.8 275.8 T 12Ø.6 236.6 255.6 E 135.2 335.8 CP 13Ø.65 319.4 ARMY OP 3Ø.5Ø 139.3Ø 265.6 AF 36.85 139.65 139.85 142.2Ø 148.Ø65 148.175 148.215 148.45 148.475 148.515 149.15 149.175 149.265 149.3Ø 149.35 149.5Ø 149.55 15Ø.165 15Ø.2Ø 15Ø.225 15Ø.25 15Ø.275 15Ø.3Ø 15Ø.345 163.46 163.485 163.535 163.56 165.Ø1 165.11 166.2Ø 173.535 228.7 228.8 234.7 235.6 238.5 239.2 251.Ø 254.8 256.6 263.2 27Ø.4 271.8 275.Ø 278.4 278.6 282.5 286.7 287.8 288.Ø 292.7 292.8 298.8 3Ø2.4 3Ø3.Ø 3Ø3.9 3Ø6.4 311.Ø 316.2 321.Ø 325.5 326.4 338.4 338.8 342.1 344.Ø 347.4 351.6 356.Ø 363.8 364.2 369.Ø 371.8 375.1 376.2 386.2 388.2 389.2 39Ø.1 392.8 394.8 4Ø7.45 4Ø8.125 4Ø9.Ø5 413.Ø25 413.Ø5 413.15 413.175 413.2Ø 413.3Ø 413.45
MC KELLAR FLD JACKSON TN FSS 255.4 AD 317.4
MC MINN CNTY APT ATHENS TN AD 353.6
MC MINNVILLE MUNI OR AD 284.6 291.7
MC MULLEN TX USN 277.8
MC NAMARA FLD CA SEE JACK MC NAMARA FLD
MC NARY FLD SALEM OR T 257.2 NG 148.575 241.6 244.8
MC PHERSON APT KS AD 325.8
MEACHAM FLD FT WORTH TX FSS 255.4 AD 3Ø9.8 T 257.8
MEADOWS FLD BAKERSFLD CA AD 317.7 362.3 T 127.1 257.8
MEDFORD-JACKSON CNTY APT OR FSS 255.4 AD/T 257.8
MELBOURNE REGN'L APT FL FSS 255.4 AD 29Ø.8 34Ø.9 358.3 T 257.8
MEMORIAL FLD HOT SPRINGS AR AD/T 257.8
MEMPHIS DEFENSE DEPOT TN 38.89 164.1Ø 173.41 173.46 412.835 413.235
MEMPHIS INT'L APT TN FSS 255.4 AD 284.7 291.6 313.2 338.3 372.1 G 257.8 T 257.8 ANG/CP 138.1Ø 341.6 ANG 14Ø.65 14Ø.775 141.ØØ 15Ø.345 163.46 163.485 163.585 164.2Ø 165.11 165.16 349.4
MEMPHIS NAS MILLINGTON TN AD 119.1 125.8 126.7 284.7 291.6 338.3 T 126.3 236.6 34Ø.2 36Ø.2 G 126.2 382.8 FIRE DEPT 149.1Ø POST EXCH 142.85 HOUSING 138.65 CRASH 14Ø.1Ø MED CNTR 138.95 INVESTIGATION 139.58 CONSTRUCTN 14Ø.82 CIVIL ENGNRNG 141.ØØ GATE 142.5Ø SECURITY 142.55 RECREATION DEPT 142.86 MED PAGING 148.325 BLDG MAINT 14Ø.9Ø EMERGENCY 38.3Ø USN 138.525 138.96 139.45 139.545 14Ø.Ø75 14Ø.5Ø 149.175 142.Ø75 143.275 143.675 143.7Ø 143.725 282.Ø 285.2 299.6 3Ø1.3Ø 321.8 AMBULANCES 155.28
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163.46 163.51 163.585 164.1Ø 164.5Ø 165.Ø1 165.11
165.135 165.16 173.51 173.535 173.56 173.585 234.95
236.Ø 251.9 266.2 271.3 271.9 284.Ø 292.5 293.4 297.2
298.1 3Ø8.8 311.Ø 314.3 318.2 321.Ø 323.8 326.2 335.9
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14Ø.895 142.515 143.715 15Ø.1Ø5 15Ø.15 15Ø.2Ø 15Ø.55
249.8 25Ø.2 25Ø.8 253.1 253.3 253.8 255.Ø 262.7 263.5
263.7 265.25 267.7 275.5 283.3 284.5 284.6 285.2
289.8 29Ø.4 291.3 299.7 3ØØ.2 3ØØ.4 3Ø1.3 3Ø4.1 3Ø6.Ø
3Ø6.7 311.8 313.Ø 313.2 314.9 318.8 322.1 323.Ø 328.3
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256.5 263.5 263.7 266.7 266.8 27Ø.7 283.3 292.95
293.Ø5 294.65 294.75 295.35 295.45 297.95 298.Ø5
299.45 299.55 3ØØ.2 3Ø5.Ø 3Ø6.35 3Ø6.45 3Ø7.85
3Ø7.95 3Ø9.25 3Ø9.35 31Ø.75 31Ø.85 312.3 339.5 341.Ø
341.3 354.7 38Ø.6 384.5 ANG 4Ø.13 NASA AMES RE-
SEARCH CENTER 123.3 162.Ø25 163.Ø25 166.225 17Ø.125
17Ø.35 17Ø.4Ø 171.15 173.66 173,685 314.6 382.6
4Ø6.225 41Ø.ØØ

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326.4 338.8 342.1 347.4 351.6 364.2 371.8 376.2 389.2
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173.535 173.585 295.Ø 296.9 311.3 379.5 413.15
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MOTOROLA CORP
BENSENVILLE IL 151.955
CHERRY VALLEY IL 151.955
CHICAGO IL 151.865 151.955 461.975 462.25 462.9Ø
851.3375
DES PLAINES IL 151.955
DIXON IL 151.955
FRANKLIN PARK IL 151.865 151.955 154.625 461.975
462.25
LOMBARD IL 151.955 883.53 883.59 883.62 883.65
MESA AZ 158.31
OTTAWA IL 151.865 151.955
PHOENIX AZ 153.395 157.74 461.975462.2Ø 8Ø6.137
ROLLING MEADOWS IL 462.9Ø
SALEM IL 461.9Ø
SCHAUMBURG IL 33.7Ø 46.14 151.865 151.955 151.965
152.48 152.495 152.84 152.925 154.46 159.27 159.42
173.335 173.35 173.36 173,395 453.Ø25 453.125 454.ØØ
454.725 454.85 458.Ø25 458.125 461.975 462.15 462.25
464.55 466.975 471.163 471.287 8Ø6.1875 8Ø6.25
8Ø6.3375 815.75
SCOTTSDALE AZ 151.955 157.74 462.2Ø
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MOUNTAIN HOME AFB ID DI 372.2 S 273.5 FSS 122.6 G 275.8
WX 342.5 AD 124.8 259.1 371.2 T 126.2 253.5 TAC/CP
("RAYMOND 27") 292.2 381.3 AF 139,65 148.Ø65 148.Ø95
148.125 148.2Ø 148.455 148.515 148.545 149.3Ø 15Ø.255
15Ø.315 163.46 163.535 163.585 164.96 165.Ø6 165.11
173.535 173.56 173.585 268.1 271.3 276.6 283.8 284.Ø
289.3 3Ø5.7 311.Ø 321.Ø 349.Ø 363.8 369.2 392.2 395.1
413.15 413.45 DEPT OF ENERGY 167.85 168.45

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MOUNT HEBO AFS HEBO OR AF 163.485 228,6 235,9 238.2
238.6 239.7 252,Ø 26Ø.9 261.4 265.4 271.Ø 277.6 279.4
282.6 287.7 288.4 293.6 293.8 328,Ø 348.2 351.5 355.2
359.8 364.2 374.Ø 386,Ø 39Ø.2 394.2 397.8

MOUNT LAGUNA AFS CA AF 228.9 234.6 238.4 254.2 26Ø.8

MOUNT OLIVE MUNI NC ARMY 227,Ø 242,Ø 249,Ø 364.5 391.5

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4Ø.97

MOUNT WILSON OBSERVATORY PASADENA CA 3Ø.84 31.24 33.14
33.4Ø 35.Ø2 35.Ø4 154.6Ø 5Ø8.187

MUIR AAF/FT INDIANTOWNGAP ANNVILLE PA AD 247.2 118.25
G 4Ø.9Ø 139.ØØ 265,6 T 126.2 241.Ø 248.2 MIL POLICE
412.875 SECURITY GUARDS 414.2Ø ARMY 32.53 38.45 4Ø.77
4Ø.83 46,79 46,93 49.7Ø 49.8Ø 143.Ø75 143.15 148.Ø65
163.46 165.Ø85 232,7 235.5 237.4 267,1 299.1 375.5
AF 149.275 345.5 388.5 394.5 398.5 NG "FLIGHT LINE"
41.2Ø

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WX 239.8 CP ("RAYMOND 21") 343.Ø 381.3 AF 34.2Ø
34.35 34.6Ø 36.45 36.8Ø 38.7Ø 4Ø.55 41.7Ø 46.65
46.95 49.75 49.9Ø 49.95 138.Ø75 138.1Ø 138.165
138.175 138,3Ø 139,8Ø 139,975 141.6Ø 142.3Ø 148.Ø5
148.Ø95 148.215 148.375 148.455 149.175 149.225
149.5Ø5 149.565 15Ø.165 15Ø.315 163,375 163.585
165.135 173.56 173.585 225.4 236.Ø 251.9 259.Ø 262.3
266.3 276,8 28Ø.5 286,5 286.7 289.3 289.6 29Ø.7 294.5
3Ø4.9 318.2 321.1 321.2 339.1 371.2 379.3 381.Ø 383.1
389.4 392.Ø 413.15

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148,98 149,52 149,82 154.2Ø 164.175 167.825 167.925
17Ø.Ø25 17Ø.35 17Ø.4Ø 171.ØØ 171.15 173.66 173.685
4Ø8.15 412,ØØ DEFENSE CIVIL PREPAREDNESS AGENCY
167.925
JET PROPULSION LABS GOLDSTONE CA 123.Ø 148.25 148.26
148,98 149,52 154.2Ø 162.Ø25 162.61 164.2Ø 164.985
259.7 296,8 314,6 382.6
JET PROPULSION LABS PASADENA CA 122.85 162.Ø25
162.61 163.ØØ 168.35 17Ø.35 171.ØØ 4Ø6.225 41Ø.ØØ
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168.45 169.ØØ 17Ø.1Ø 173.685 314.6 382.6 MAINTENANCE
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173.66 173.685 173,785
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173.735 DEF CIVIL PREP AGCY 167.975
PALESTINE TX 4Ø.82 138.75 4Ø6.225 41Ø.ØØ

ROSMAN NC 148.25 148.26 148.98 149.52 148.56 149.82 154.2Ø 171.475 172.225
SANDUSKY OH 122.85 123.3 161.125 164.175 164.175 164.225 164.275 17Ø.4Ø 314.6 382.6
WALLOPS ISLAND FLIGHT CENTER CHINCOTEAGUE VA AD 134.1 135.15 281.8 T 126.5 394.3 NASA 4Ø.87 46.73 49.83 122.8 122.85 123.175 123.2 123.225 123.25 123.3 123.375 123.4 123.45 148.25 148.56 148.98 149.15 149.52 164.7Ø 166.225 17Ø.35 17Ø.4Ø 171.ØØ 171.15 171.385 311.2 314.6 326.3 362.6 412.ØØ 416.8Ø 42Ø.Ø AF 149.325 NOAA 165.435 DEPARTMENT OF ENERGY 226.7 23Ø.4 239.4 248.6 259.7 CG 416.55 417.ØØ
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NATIONAL BUREAU OF STANDARDS GAITHERSBURG MD 162.175 163.225 163.3Ø 164.Ø25 165.56 166.15 166.175 169.Ø25 41Ø.15 41Ø.825
NATIONAL BUREAU OF STANDARDS STERLING VA 163.325 163.35 169.425 169.45 171.9Ø 171.925
NATIONAL BUREAU OF STANDARDS RADIO STATION WWVL SUNSET CO 4Ø.475 165.56 166.Ø5
NATIONAL CENTER FOR ATMOSPHERIC RESEARCH NAT'L SCI FNDTN BOULDER CO 164.2Ø 165.66 4Ø9.825
NATIONAL CLIMACTIC CENTER NOAA ASHEVILLE NC 416.375
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NEWPORT ARMY AMMUNITION DEPOT IN ARMY 139.Ø75 14Ø.Ø25 163.535 173.46
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NEWPORT AFS NC AF 228.8 234.7 238.5 251.Ø 256.6 263.2 27Ø.4 275.Ø 278.6 287.8 292.7 3Ø2.4 3Ø6.4 338.4 344.Ø 356.Ø 364.2 369.Ø 375.1 386.2 392.8
NEWPORT NAVAL BASE RI USN 32.45 36.55 138.6Ø 138.62 138.975 14Ø.Ø75 14Ø.Ø4 14Ø.34 14Ø.65 14Ø.725 14Ø.75 14Ø.775 14Ø.82 14Ø.825 143.5Ø 143.7Ø 148.27 148.325 149.4Ø 162.25 163.ØØ 163.75 164.5Ø 233.8 266.7 276.7 283.4 284.4 3ØØ.3 3Ø6.Ø 314.9 32Ø.5 336.3 339.6 34Ø.4 348.1 355.5 MED EMERGENCIES 155.28
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NILAND CA USN 142.8Ø 245.Ø
NOAA ENVIRONMENTAL RESEARCH LABS BOULDER CO 122.9 122.925 162.Ø75 162.125 165.56 166.Ø5 172.Ø25
NOAA MOUNT WASHINGTON NH WEATHER OUTPOST 34.Ø2 (NOTED ON 463.95 AT 25 MIN PAST HOUR WITH REGULAR WEATHER INFO REPORT TO PORTLAND NOAA OFFICE)

NOAA ROCKVILLE MD HEADQUARTERS 34.98 36.22 166.Ø5
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139.475 139.525 14Ø.Ø4 14Ø.Ø5 14Ø.Ø75 14Ø.1Ø 14Ø.125
14Ø.16 14Ø.275 14Ø.3Ø 14Ø.325 14Ø.35 14Ø.45 14Ø.475
14Ø.5Ø 14Ø.525 14Ø.55 14Ø.575 14Ø.6Ø 14Ø.625 14Ø.65
14Ø.675 14Ø.72 14Ø.725 14Ø.75 14Ø.775 14Ø.8Ø 14Ø.825
14Ø.875 14Ø.9Ø 14Ø.925 14Ø.975 141.ØØ 141.95 142.ØØ
142.Ø75 142.525 142.575 142.625 142.65 142.75 141.775
142.85 143.5Ø 143.55 143.6Ø 148.3Ø5 148.35 149.Ø1
149.Ø25 149.Ø7 149.1Ø 149.4Ø 15Ø.Ø75 15Ø.39 162.25
163.325 163.75 164.125 165.625 167.125 167.875 168.25
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283.1 284.2 284.5 291.2 292.95 293.Ø5 294.65 294.75
296.35 296.45 297.95 298.Ø5 299.45 299.55 3ØØ.5 3Ø1.Ø
3Ø2.2 3Ø3.4 3Ø4.1 3Ø4.2 3Ø6.Ø 3Ø6.35 3Ø6.45 3Ø7.85
3Ø7.95 3Ø9.25 3Ø9.35 31Ø.75 31Ø.85 312.9 313.8 32Ø.5
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353.1 354.6 355.3 356.2 358.95 359.6 36Ø.3 361.Ø
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167.5Ø 169.ØØ 17Ø.5Ø 172.75 238.Ø 25Ø.4 253.Ø 253.9
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253.2 256.4 262.7 264.2 265.1 265.8 266.7 267.4 271.4
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149.485 149.5Ø5 165.11 165.135 173.56 173.585 173.61
251.9 293.7 397.1 LOCKHEED COMPANY OP 123.Ø 153.2Ø
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381.7 381.8 383.9 419.125 AF/CG SECURITY 165.135 AF 148.515 149.2Ø5 15Ø.165 15Ø.195 15Ø.255 163.51 163.535 165.Ø35 165.11 173.56 173.585 251.9 262.Ø 288.Ø 311.Ø 321.Ø 361.4 375.Ø 391.2 413.45 42Ø.Ø USN 138.525 138.55 143.725 385.3

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163.485 163.56 164.5Ø 165.11 173.535 173.585 236.6
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165.135 165,16 165,185 169.925 172.875 173.175 173.41
173.435 173,46 173,485 173,51 173.535 225.4 226.3
227.1 227,3 229.8 23Ø,8 232.7 233.3 237.3 239.5 243.8
244.7 26Ø.3 299.1 3Ø4,6 339.85 347.6 347.75 356.3
356.4 356.5 365,5 376,7 399,2 NASA MARSHALL SPACE
FLIGHT CENTER 122,85 162,125 164,175 164,2Ø 164,275
164.975 165,325 166,225 167,875 168.45 17Ø.1Ø 17Ø.2Ø
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149.15 149.475 149.565 15Ø.165 15Ø.345 163.46 163.485
163.585 164.5Ø 165.Ø1 165.135 165.185 17Ø.375 171.975
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139.325 139.4Ø 139.5Ø 139.6Ø 14Ø.Ø5 14Ø.2Ø 14Ø.25
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141.65 142.Ø5 142.3Ø 142.4Ø 142.5Ø 142.6Ø 142.8Ø
142.9Ø 143.ØØ 143.Ø25 143.Ø5 143.Ø75 143.1Ø 143.125
143.15 143.175 143.2Ø 143.25 143.3Ø 143.325 143.35
143.4Ø 148.575 148.6Ø 148.625 148.65 148.675 148.7Ø
148.75 148.8Ø 148.825 148.85 148.875 148.9Ø 148.925
149.57 149.6Ø 149.625 149.65 149.675 149.7Ø 149.725
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231.Ø 231.3 231.6 232.4 233.2 233.35 234.1 234.4
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242.4 244.Ø 248.2 267.3 28Ø.8 286.2 3ØØ.Ø 3Ø2.3
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366.6 366.7 366.9 367.1 367.3 367.5 367.7 367.9 368.1
368.3 368.5 368.7 368.9 369.8 37Ø.Ø 37Ø.2 37Ø.4 373.3
38Ø.6 393.3 393.5 395.4 4Ø7.225 4Ø7.275 4Ø7.325
412.825 412.875 412.9Ø 413.Ø75 413.275 413.475
413.525 413.575 AF 36.85 38.65 46.75 139.7Ø 141.8Ø
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WARSAW MUNI IN AD 284.6

WASHINGTON CNTY APT PA AD 388.0 NG 46.70

WASHINGTON NAT'L APT DC FSS 255.4 AD 306.3 338.2 269.0 322.3 343.7 396.1 G 257.6 T 257.6 CG 171.335 409.235 NASA 170.175 RESCUE 165.50 POLICE 165.66

WASH-WILKES CNTY APT GA AD 256.9

WATERBURY-OXFORD APT CT AD 319.8

WATERLOO IA USN 30.45 36.16

WATERLOO MUNI IA AD 381.2 257.8 T 257.8 G 242.8 NG 40.60 AF 311.0

WATERTOWN AFS NY AF 165.035 227.1 228.7 235.8 239.2 244.7 254.8 278.4 282.5 288.0 292.8 298.8 303.9 316.2 326.4 338.8 342.1 347.4 351.6 364.2 371.8 376.2 389.2 394.8 399.0

WATERTOWN MUNI SD FSS 255.4

WATERTOWN MUNI WI AD 343.9

WATERTOWN NY INT'L NY FSS 255.4 AD 377.1

WATERVLIET ARSENAL NY ARMY SECURITY 165.06 ARMY 163.535 173.46

WATERVILLE LAFLEUR APT ME AD 269.6

WAUKESHA CNTY WI AD 307.0

WAUPACA MUNI WI AD 370.9

WAUSAU MUNI WI FSS 255.4 AD 317.7

WAYLAND MA AF 148.50 149.50 227.05 228.05 314.25 315.25 316.25 397.25 (SATELLITE GRND STATION)

WEBB AFB BIG SPRING TX AF 139.85 163.485 173.435 173.585 236.6 341.7 413.15

WEEDON FLD EUFALA AL AD 278.5

WEBSTER FLD MD USN 126.2 140.1 292.95 293.05 293.15 294.65 294.75 294.85 296.35 296.45 296.55 297.95 298.05 298.15 299.45 299.55 299.65 302.7 306.35 306.45 306.55 307.75 307.85 307.95 308.05 309.25 309.35 309.45 310.75 310.85 310.95 311.15 315.3

WELD CNTY MUNI GREELEY CO AD 284.7 AF 46.85 143.80 314.2 343.0 354.2

WENDOVER APT UT AF 142.25 226.0 233.4 271.1 287.0

WEST BEND MUNI WI AD 307.0 ARMY 40.80 241.0

WESTCHESTER CNTY APT WHITE PLAINS NY AD 319.8 T/G 381.2 ANG ("POLO OPS") 46.75 139.70 361.4 ANG 139.70 149.175 149.20 149.25 149.30 149.325 150.15 379.4 391.2

WESTERLY STATE APT RI AD 346.0

WESTERN SPACE & MISSILE CNTR POINT ARGUELLO CA H 121.4 296.5 386.6

WESTFIELD MA USN 30.45 38.75

W GEORGIA REGN'L APT CARROLLTON GA AD 343.6

WESTHEIMER OK SEE MAX WESTHEIMER

W MEMPHIS MUNI AT AD 284.7 291.6

WESTMORELAND CNTY APT LATROBE PA AD 299.2

WESTOVER AFB CHICOPEE MA DI 372.2 AD 121.05 325.8 G 275.8 126.2 WX 342.5 375.2 CP/439TH TAW ("CASINO ROYAL") 252.1 AF40.17 40.19 138.075 138.165 138.90 148.05 148.065 149.55 149.565 163.585 165.065 165.185 173.41 173.535 173.56 301.4 311.0 321.0 413.20 413.30 413.40 413.45 USN 30.45 38.75

WEST POINT ACADEMY & MIL RESERVATION NY ARMY 38.55 38.95 40.90 49.70 49.80 165.06 321.7 HOSPITAL 150.70 FIRE DEPT 38.85 MIL POLICE 38.70

WEST POINT MUNI VA AD 360.6

WHARTON MUNI AD 279.6

W H BUD BARRON APT GA AD 279.6

WHEELER-SACK AAF/FT DRUM WATERTOWN NY ARMY MATERIALS & MECHANICS RESEARCH CENTER T 49.80 126.2 229.8 241.0 ARMY 30.10 38.85 46.87 49.70 49.80 139.025 139.05 141.10 141.475 142.45 143.075 143.15 AF 143.85 143.925 163.51 258.2 379.5

WHEELING-OHIO WV FSS 255.4 AD 388.0 T 257.8

WHIDBEY ISLAND NAS/AULT FLD WA AD 120.7 124.15 126.85 118.2 270.8 286.0 300.4 G 121.75 336.4 T 126.85 126.2 340.2 E 380.8 WX 344.6 HELICOPTER RESCUE 34.15 282.8 AF 30.45 32.05 324.5 34.95 36.53 36.57 36.63 36.85 36.87 138.625 139.575 140.10 140.25 140.10 140.225 140.45 140.55 140.60 140.65 140.75 140.775 142.525 142.80 143.715 149.40 254.9 258.6 268.7 279.0 281.8 360.0 360.6 313.3 318.5 320.4 328.4 337.0 339.5 341.2 344.2 350.1 352.4 355.1 356.2 360.2 360.9 361.9 363.6 376.8 380.6 384.4 385.0 386.8 406.762

WHITEFIELD REGN'L APT NH 354.1

WHITE HOUSE WASH DC HELICOPTER PAD 375.0 OP 162.85 165.925 166.925 167.025 167.825 167.785 171.285 POLICE 165.925 166.85 166.925 167.075 409.55 409.65 409.75 409.85 411.625 411.725 411.825 411.925 MESSENGERS 169.925

WHITEMAN AFB KNOB NOSTER MO DI 372.2 AD 119.65 285.6 352.0 G 275.8 T 109.0 125.7 255.6 CO 311.0 321.0 NG 41.00 AF 34.20 148.05 148.245 148.95 149.175 149.205 149.235 149.475 149.565 150.10 150.375 163.585 164.50 165.01 165.035 165.135 165.185 173.35 173.585 173.66 226.7 231.4 234.8 234.95 242.0 243.8 260.0 266.2 271.9 308.8 313.3 323.8 335.9 384.7 413.15 413.45 413.825

WHITE OAK NAVAL SURFACE WEAPONS CENTER MD USN 138.72 139.50 140.22 140.45 140.58 142.50

WHITE SANDS MISSILE RANGE ORGAN NM 30.09 30.29 30.49 30.50 32.65 32.89 34.70 36.10 36.51 36.91 38.50 40.10 40.90 41.25 41.34 41.59 41.90 49.93 118.45 119.0 121.8 122.8 123.3 126.95 135.85 135.95 138.20 139.38 139.44 139.77 139.80 140.55 140.60 141.35 141.40 141.48 141.68 141.86 142.23 142.35 142.875 142.90 142.975 143.00 143.175 143.275 148.00 148.15 148.47 148.485 148.605 148.70 148.755 148.815 148.90 149.175 149.85 150.20 150.45 150.475 150.525 150.575 150.675 163.325 164.50 165.138 165.563 165.613 166.00 167.175 167.85 170.35 170.575 170.94 171.15 171.175 171.23

171.26 171.385 171.Ø85 173.46 173.66 173.685 173.815 173.91 23Ø.4 23Ø.5 237.4 24Ø.2 243.5 248.6 252.4 256.2 257.Ø 258.9 259.7 261.3 262.5 265.6 267.3 268.Ø 275.2 28Ø.8 284.1 287.2 29Ø.6 298.1 292.2 299.1 299.8 3Ø4.2 3Ø4.3 315.2 319.6 32Ø.7 339.9 341.6 345.4 347.5 349.6 377.5 379.9 383.Ø 384.Ø 384.8 386.2 389.5 391.5 395.5 397.1 4Ø7.3Ø 4Ø9.ØØ 412.875 412.975 413.525 416.6Ø MSC("CHEROKEE CONTROL") 294.6

WHITING FIELD NAS MILTON FLA AD 126.85 127.35 278.8 286.Ø 298.9 WX 317.Ø USN 138.6Ø 138.825 138.975 139.475 139.5Ø 139.55 14Ø.1Ø 14Ø.175 14Ø.7Ø 14Ø.875 142.85 148.975 15Ø.1Ø 15Ø.375 264.4 273.Ø 274.7 279.2 3Ø1.Ø 3Ø3.6 3Ø4.2 3Ø8.2 328.2 34Ø.2 342.8 35Ø.6 356.1 358.Ø 358.8 36Ø.2 361.1 382.8 384.3 NORTH TOWER 126.2 344.2 NORTH GROUND CONTROL 341.Ø NORTH E 354.8 SOUTH TOWER 126.2 349.8 SOUTH GROUND CONTROL 346.8 SOUTH TRANSIENT LINE 253.1

WHITTAKER CORP
OXNARD CA 154.515
SAN DIEGO CA 154.515

WICHITA KS USN 36.55 4Ø.8Ø

WICHITA MID-CONT APT KS FSS 255.4 AD 281.5 29Ø.3 3Ø7.9 353.5 G 348.6 T 257.8

WICHITA VALLEY APT WICH FLS TX AD 292.3

WILBARGER CNTY APT VERNON TX AD 259.3 29Ø.9

WILEY POST APT OKLA CY OK FSS 255.4 AD 392.1 395.Ø G 348.6 T 3Ø6.9

WILKES BARRE-WYOMING VLY APT PA AF 413.4Ø

WILKES-BARRE-SCRANTON INT'L APT PA FSS 255.4 AD 256.7 T 257.8 H 381.5

WILLARD APT OH AD 39Ø.8

WILLIAM P HOBBY APT HOUSTON TX FSS 255.4 AD 257.7 284.Ø 3Ø7.1 379.1 T 256.9

WILLIAMS AFB CHANDLER AZ AD 115.5 119.2 12Ø.4 12Ø.7 124.1 296.6 353.8 317.5 379.1 379.8 388.Ø G 275.8 T 113.3 126.2 255.6 H 124.9 E 289.4 WX 344.6 AF 138.Ø25 138.Ø75 138.165 138.175 139.65 139.85 139.9Ø 148.215 148.225 149.5Ø 149.5Ø5 15Ø.285 163.375 163.51 163.56 163.585 163.835 164.Ø5 165.Ø35 165.135 228.4 242.4 254.7 271.8 28Ø.1 286.6 289.4 29Ø.9 296.9 297.4 317.9 337.4 344.9 348.3 371.2 379.5 388.2 391.9 395.9 413.15

WILLIAMSBURG CNTY APT SC AD 353.5

WILLIAMS CNTY APT BRYAN OH AD 228.4

WILLIAMSON CNTY APT MARION IL AD 269.5

WILLIAMSPORT-LYCOMING CNTY APT FSS 255.4 T 257.8

WILLMAR MUNI MN FSS 255.4

WILLOW GROVE NAS PA S 275.6 AD 123.8 266.8 325.2 291.7 G 121.8 38Ø.8 T 119.35 34Ø.2 E 121.8 WX 344.6 ANG/OP 141.8Ø 343.Ø AFR/OP 138.9Ø 351.2 USN 32.45 34.55 36.85 4Ø.15 138.55 138.65 138.725 139.48 139.5Ø 14Ø.85 141.ØØ 141.1Ø 149.Ø3 149.Ø5 283.Ø 349.9 363.5 382.8 383.5 385.3 AF 46.75 46.85 141.8Ø 143.8Ø 149.175 163.485 164.91 165.135 165.16 391.2 4Ø7.4Ø 4Ø7.5Ø 413.15 413.2Ø 413.3Ø

WILLOW RUN MUNI DETROIT MI AD 363.2 348.3

WILL ROGERS WORLD APT OKLA CY OK AD 336.4 385.5 393.1 395.Ø G 348.6 T 257.8 ANG/CP 319.4 ANG 148.5Ø 149.3Ø 149.475 149.525 15Ø.15 163.485 165.11 FAA 162.25 164.Ø5

WILMINGTON DE SEE GREATER WILMINGTON

WILSON GA SEE LEWIS B WILSON

WINCHESTER MUNI VA AD 351.1

WINDER APT GA AD 256.9 NG 34.ØØ

WINDHAM APT WILLIMANTIC CT AD 346.Ø 348.3

WINDOM MUNI MN FSS 255.4

WINDOW ROCK APT AZ AD 3Ø7.2

WINGS FLD PHILA PA AD 291.7

WINKLER CNTY APT WINK TX FSS 255.4

WINNEMUCCA MUNI NV AD 269.Ø

WINONA MUNI-CONRAD FLD MN AD 248.2

WINSLOW MUNI AZ FSS 255.4

WINTER HARBOR NAVAL BASE ME USN 138.58 139.5Ø 141.ØØ

WISCASSET APT ME AD 263.6

WITHAM FLD STUART FL T 126.6 GRUMMAN OP & FLITE TESTS 32.5Ø 34.1Ø 38.9Ø 46.9Ø 49.65 49.7Ø 123.2 123.25 142.74 143.58 153.365 G 121.7 UNICOM 122.95

WITTMAN FLD OSHKOSH WO AD 3Ø6.3

W J MC DONALD OBSERVATORY UNIV OF TEX FT DAVIS TX 162.2Ø

W K KELLOGG REGN'L APT AD 34Ø.9 G 348.6 T 239.Ø ANG/OP 267.8 ANG 41.95 46.85 139.7Ø 163.46 163.485 163.51 163.585 385.9 389.Ø 391.2 ARMY 139.1Ø

WOLD-CHAMBERLAIN FLD MN SEE MINNEAPOLIS-ST PAUL INTL

WOLF AL USN 384.1

WOOD CNTY-WILSON FLD PARKERSBG WV FSS 255.4 AD 237.3 T 257.8

WOODRING OK ENID WOODRING MUNI

WOODWARD FLD CAMDEN SC AD 327.3

WORCESTER ANG BASE MA ANG 138.125 138.275 259.4 267.8 3Ø1.6 3Ø3.Ø 314.2 34Ø.8

WORCESTER MUNI MA FSS 255.4 AD 263.Ø 353.7 T 263.Ø

WRIGHT NJ SEE CALDWELL-WRIGHT

WRIGHT AAF/FT STEWART HINESVILLE GA AD 118.4 125.3 339.3 354.Ø 387.1 OP 38.7Ø T 38.5Ø 126.2 231.8 ("VICTORY RADIO") 41.3Ø 127.35 247.Ø ARMY 38.53 4Ø.1Ø 4Ø.15 46.7Ø 46.75 46.95 49.65 49.7Ø 49.8Ø 138.1Ø 139.6Ø 141.Ø5 141.3Ø 141.45 141.5Ø 142.875 143.ØØ 143.1Ø 143.315 143.25 143.325 143.5Ø 143.75 148.6Ø 148.6Ø5 148.645 148.675 148.775 148.815 148.885 148.925 149.65 149.7Ø 15Ø.425 15Ø.475 163.485 163.535 163.56 164.5Ø 164.96 165.Ø35 165.Ø6 165.Ø85 165.16 165.185 165.335 173.41 173.46 173.51 226.3 226.6 227.3 229.6 233.Ø 248.2 271.1 277.5 3Ø8.7 321.6 387.9 4Ø7.35 412.9Ø 413.525 AF 141.8Ø 142.25 34Ø.6 341.5 342.3 349.3 375.5

WRIGHT-PATTERSON AFB DAYTON OH DI 122.85 372.2 S 115.2 269.9 AD 118.85 327.1 G 121.8 335.8 WX 344.6 T 115.2 126.7 236.8 289.6 SECURITY 173.435 173.535 FBI 173.435 173.535 AF 4Ø.17 4Ø.19 41.1Ø 46.65 46.95 138.Ø75 138.165 138.175 138.25 138.875 139.25 139.65 14Ø.4Ø 141.7Ø 148.Ø35 148.Ø65 148.215 148.425 149.2Ø5 149.325 149.535 15Ø.195 15Ø.25 163.61 163.585 164.7Ø 165.11 165.16 165.61 166.225 173.56 173.66 225.Ø 225.8 23Ø.4 251.9 255.7 257.Ø 259.2 276.9 287.2 289.4 294.2 3Ø2.7 3Ø3.4 311.Ø 316.625 316.785 317.9 321.Ø 341.6 349.6 379.7 384.8 397.1 4Ø7.4Ø 4Ø7.425 4Ø7.475 4Ø8.Ø5 4Ø8.125 4Ø8.175 413.ØØ 413.Ø5 413.1Ø 413.125 413.15 413.2Ø 413.275 413.375 413.45 USN 49.95

W T PIPER MEM LOCK HAVEN PA PIPER AIRCTAFT COMPANY UNICOM 122.8 FLITE TESTS 123.35 123.45 123.525

WULFSBERG ELECTRONICS OVERLAND PARK KS 151.87 163.125 173.345

WURTSMITH AFB OSCODA MI DI 372.2 AD 116.1 128.6 3Ø1.5 395.Ø T 126.2 236.6 289.6 CP 311.Ø 321.Ø WX 342.5 AF 138.Ø75 138.165 138.175 14Ø.Ø65 148.Ø95 149.565 15Ø.195 163.485 163.51 163.56 163.585 163.9Ø 164.Ø5 164.1Ø 164.5Ø 165.Ø35 165.11 173.56 173.585 236.6 275.8 289.6 29Ø.9 291.1 316.7 363.8 389.8 395.Ø 413.15 413.45

YAKIMA AIR TERMINAL WA FSS 255.4 AD 393.1 G 348.6 T 257.8 AF 163.586

YAKIMA FIRING CENTER WA ARMY 41.5Ø 126.2 143.225 143.275 165.Ø6 173.41 173.71 241.Ø 248.2 412.825

YERBA BUENA ISL CA USN 14Ø.Ø75 14Ø.65 14Ø.775

YORKTOWN NAVAL WEAPONS STATION VA USN 138.84 139.525 14Ø.2Ø 14Ø.34 14Ø.8Ø 14Ø.82 141.ØØ 148.375 148.95 149.425 15Ø.4Ø 236.2 345.9

YOUNGSTOWN MUNI OH FSS 255.4 AD 322.3 381.4 393.Ø G 275.8 T 263.Ø AF RESERVE 149.175 149.225 149.235 149.325 15Ø.275 173.585 384.7 392.2 4Ø7.425 413.2Ø 413.3Ø

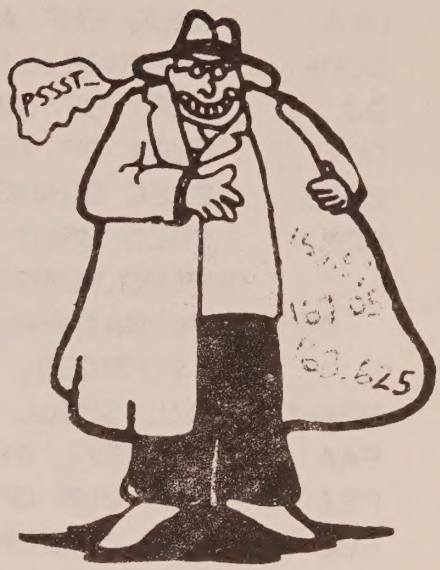
YUBA CNTY APT MARYSVILLE CA FSS 255.4 AD 327.5 T 393.1

YUMA PROVING GROUNDS AZ SEE LAGUNA AAF

YUMA MCAS AZ FSS 255.4 AD 314.Ø 374.8 T 126.2 352.5 382.8 G 34Ø.2 E 336.4 CP 337.9 TARGET 337.9 WX 349.9 USMC 138.975 139.5Ø 139.545 14Ø.Ø55 14Ø.1Ø 14Ø.175 14Ø.25 14Ø.455 14Ø.5Ø 14Ø.65 14Ø.7Ø 14Ø.775 14Ø.895 14Ø.94 141.ØØ 142.5Ø 143.5Ø5 143.575 143.715 148.35 148.975 149.Ø5 149.115 149.125 149.15 15Ø.15 165.Ø35 165.15 173.535 242.2 25Ø.3 258.9 262.6 262.9 268.3 272.3 273.2 279.2 281.3 285.1 299.3 3ØØ.45 3Ø7.5 31Ø.2 31Ø.3 311.9 315.3 318.5 325.4 342.9 349.9 358.6 36Ø.2 363.4 381.9 384.4 385.1 413.2Ø ARMY 4Ø7.475 MCDONNELL DOUGLAS OPS & FLITE TESTS 123.2 123.275 123.3 123.4 123.425 123.45 123.55 153.Ø8 275.Ø 275.2 314.6 382.6

ZANESVILLE MUNI OH FSS 255.4

FREQUENCY FREE-FOR-ALL



In this section is to be found the information on the various security agencies doing investigations, surveillance, enforcement and intelligence gathering work. Most of these agencies seem to use their frequencies at various times at all of their points of operation so specific locations have not always been indicated except in those situations where certain specific frequencies seem to have been placed in use over long periods of time at certain locations.

This section also shows many non-security agency frequencies which are used on a major basis by those agencies, but which are not delineated for specific locations and facilities in our major installation section. Also to be found in this free-for-all section are those frequencies which are still in the more tentative stages of identification; and this section has been used to enumerate various military frequencies which are used nationally by ships, aircraft, portable, or land mobile units which may not be associated with specific facilities listed in the major facility/installation section. Lastly, this section identifies those channels known to be used for repeater input/output purposes, or having specific code names or operational functions on a national basis and to be used to amplify the information found in the major facility/installation section.

Information shown in *italics* is used to present the various incidental bits of data relating to the frequencies indicated.

SERVICE CODES USED IN THIS SECTION

AGRI	DEPT OF AGRICULTURE
ANG	AIR NATIONAL GUARD
ARMY	ARMY OR ARMY NATIONAL GUARD
ARMYM	ARMY MARS - MIL AFFIL RADIO SYSTEM
ARMYR	ARMY RESERVE
ARR	ALASKAN RAILROAD
ATF	TREASURY DEPT BUR ALCOHOL TOBACCO & FIREARMS
BIA	BUR OF INDIAN AFFAIRS
BLM	BUR OF LAND MANAGEMENT
BVP	BONNEVILLE POWER ADMIN
CAP	CIVIL AIR PATROL USAF AUXILIARY
CG	U S COAST GUARD
CGR	U S COAST GUARD RESERVE
CIA	CENTRAL INTELL AGENCY
COMM	DEPT OF COMMERCE

CUST	BUR OF CUSTOMS
DEA	DRUG ENF ADMIN
DCPA	DEFENSE CIVIL PREPAREDNESS AGCY
DJ	DEPT OF JUSTICE
DOT	DEPT OF TRANSPORTATION
EBMS	EXEC BRANCH MESSENGERS
EPA	FREQ USED FOR ENVIRONMENTAL PURPOSES, INCLUDING AIR/WATER POLLUTION, FLOOD & NATURAL DISASTER USE, NATURAL RESOURCES, ETC. VOICE AND/OR DATA OPS.
EPA-OIL	OIL SPILL CLEANUP OPERATIONS
FAA	FEDERAL AVIATION ADMIN
FBI	FED BUR OF INVESTIG
FCC	FED COMMUNICATIONS COMMISSION
FOR	FORESTRY SERVICE DEPT OF AGRICULTURE
FSS	FLIGHT SERVICE STATIONS OF FAA
FWS	FISH & WILDLIVE SERVICE
GCA	GROUND CONTROLLED AIRCRAFT APPROACH
GS	GEOLOGICAL SURVEY
GSA	GENERAL SERVICES ADMIN
IBP	IMMIGRATION & NATURALIZATION SVC INCLUDING BORDER PATROL
INEFC	INTERAGENCY NATIONAL EMERGENCY FIRE CACHE
INT	DEPT OF THE INTERIOR
MAC	MILITARY AIRLIFT COMMAND USAF
MIL	FREQ USED BY 1 OR MORE MILITARY SVCS
MINES	BUR OF MINES
MINT	BUR OF THE MINT
MP'S	MILITARY POLICE
MRSHL	U S MARSHAL
NASA	NATIONAL AERONAUTICS & SPACE ADMIN
NBS	NATIONAL BUR OF STANDARDS
NG	ARMY NATIONAL GUARD
NOAA	WEATHER SERVICE FREQUENCY
NORAD	NORTH AMERICAN AIR DEFENSE
NPS	NATIONAL PARK SERVICE
NRC	NUCLEAR REGULATORY COMMISSION
NRG	DEPT OF ENERGY
NSF	NATIONAL SCIENCE FOUNDATION
PO	POSTAL SERVICE (STATES IN ITALICS)
PRIS	BUR OF PRISONS
PROTEC	U S PROTECTION SERVICE
RC	AMERICAN NATIONAL RED CROSS
REC	BUR OF RECLAMATION

SAC	STRATEGIC AIR COMMAND USAF
SECSERV	SECRET SERVICE
STATE	DEPT OF STATE
TAC	TACTICAL AIR COMMAND USAF
TREAS	DEPT OF THE TREASURY
TVA	TENN VALLEY AUTH
USAE	U S ARMY ENGINEERS
USAF	U S AIR FORCE OR AIR NATIONAL GUARD
USAFM	U S AIR FORCE MARS MIL AFFIL RADIO SYST
USAFR	U S AIR FORCE RESERVE
USMC	U S MARINE CORPS
USN	U S NAVY
USNAR	U S NAVAL AIR RESERVE
USNM	U S NAVY MARS MIL AFFIL RADIO SYST
VA	VETERANS ADMIN
WHS	WHITE HOUSE STAFF

25.ØØØ	NBS
25.Ø13	USN
25.Ø2Ø	ARMY
25.Ø35	ARMY
25.Ø4Ø	EPA-OIL
25.Ø69	USN
25.Ø8Ø	CG EPA-OIL
25.Ø85	USN *Ships*
25.Ø9Ø	USN *Ships*
25.Ø95	USN *Ships*
25.1ØØ	USN *Ships*
25.1Ø5	USN *Ships*
25.11Ø	USN *Ships*
25.113	USN
25.13Ø	USAF
25.161	USAF
25.198	USAF
25.23Ø	MIL
25.24Ø	ARMY
25.245	USAF
25.333	USAF
25.335	USMC
25.34Ø	USAF
25.35Ø	MIL
25.36Ø	USN
25.368	MIL
25.38Ø	CG
25.39Ø	ARMY
25.4ØØ	MIL
25.41Ø	USN
25.415	CG
25.412	USN
25.425	ARMY
25.43Ø	NRG
25.44Ø	USN
25.45Ø	ARMY
25.47Ø	USN USAF
25.48Ø	USN
25.515	USN USAF
25.55Ø	ARMY
25.525	USAF
25.535	ARMY
25.55Ø	ARMY
25.575	USN
25.59Ø	USN
25.597	USAF
25.845	USMC
26.11Ø	USN
26.31Ø	USN
26.356	USAF
26.389	USAF
26.485	USN
26.49Ø	USN
26.5ØØ	MIL

26.51Ø ARMY
26.515 USAF
26.535 USN *Pacif*
26.54Ø USN
26.55Ø MIL
26.56Ø USN
26.575 ARMY
26.58Ø USN
26.59Ø USAF
26.61Ø USN USMC
26.615 USN
26.62Ø CAP
26.625 USAF
26.63Ø ARMY
26.65Ø USN *Pacif*
ARMY
26.665 USN
26.675 USN
26.684 USAF
26.7ØØ ARMY
26.71Ø USAF
26.725 USMC
26.75Ø USN USAF
26.775 USMC
26.8ØØ MIL IBP
26.825 USN
26.835 USN
26.85Ø USN ARMY
26.875 USN
26.88Ø USN *Pacif*
IBP
26.9ØØ MIL
26.925 USN ARMY
26.93Ø USN USMC
26.945 FAA
27.Ø65 CG DOT
MIL NPS *& others*
27.545 USN
27.55Ø USN ARMY
27.565 USN COM
NRG ARMY
27.575 *This is a "catch all" low power (4 w) freq used by many fed agencies including* FCC REC MINES GS IBW NRG MIL DOT CG FAA *& others*
27.585 *Similar to 27.575*
27.59Ø CG *Pacif*
27.595 USN
27.6ØØ USN ARMY
27.615 USN
27.625 FAA
27.63Ø NASA
27.65Ø USN ARMY
27.655 USN
27.675 ARMY
27.7ØØ USN ARMY
27.715 USN
27.725 ARMY NASA
27.745 USN
27.75Ø USN ARMY
27.775 ARMY
27.785 CG
27.794 ARMY
27.8ØØ USN ARMY
27.825 ARMY
27.85Ø USN ARMY
27.87Ø USAF
27.875 ARMY
27.9ØØ USN ARMY
27.925 USN ARMY
27.95Ø USN ARMY
27.964 USN
27.975 ARMY
27.98Ø CGR *4 watt*
27.995 ARMY
29.895 USN
29.9ØØ MIL
29.9Ø5 MIL
3Ø.Ø1Ø NASA
3Ø.Ø2Ø NOAA
3Ø.Ø3Ø GS

30.050 *"Spy Numbers" English 4-digit groups.*
30.060 COMM INT
30.070 COMM INT
30.090 ARMY
30.100 ARMY
30.110 ARMY
30.170 COMM INT
30.180 COMM INT
30.200 COMM
30.210 COMM INT
30.220 COMM INT
30.230 COMM INT
30.240 COMM INT
30.250 *"Spy Numbers" English 4-digit groups.*
30.260 NPS
30.290 ARMY
30.300 ARMY
30.310 ARMY
30.330 CG
30.360 CGR
30.380 CGR *Vessels*
30.410 CG
30.420 *"Spy Numbers" English 4-digit groups.*
30.430 CG
30.460
30.470 *"Spy Numbers" English 4-digit groups.*
30.500 ARMY
30.510 ARMY
31.000 ARMY *Wire Integration Net W. Germany*
31.960 ARMY
32.020 MINES
32.090 ARMY
32.100 ARMY USAF
32.130 CG
32.190 INT
32.210 CG
32.250 ARMY STATE
32.270 ARMY
32.290 ARMY
32.330 USAF
32.350 USAF
32.370 USAF
32.390 FOR
32.400 ARMY
32.430 USN
32.490 ARMY
32.500 ARMY
32.510 ARMY
32.550 FOR
32.570 FOR

TEXAS TOWER-4

UNITED STATES AIR FORCE STATION

ONFIRM YOUR RECEPTION OF
"TT4" ON 2198 KCS. AT
T ON _____ 19
'ATTS, ANTENNA Dipoles
ating 65 miles South East of N.Y.C.
VT Type RCA marine Model ET-9055
Signed: Anthony J Smith

KAE51

UNITED STATES WEATHER BUREAU
NANTUCKET ISLAND, MASS.

THIS WILL CONFIRM YOUR RECEPTION OF
RADIO STATION KAE51 ON 2776 KCS. AT
0251 GMT ON 26 August 1958
POWER: 350 WATTS, ANTENNA Doublet-coax fed
REMARKS:- also operate on 6977.5 Kcs as KID-75 Suggest you segure list of other WB-Stations from U.S. WEATHER BUREAU
Instrumental Engineering Division Washington 25, DC.
Signed: [signature] Station Electronic

32.59Ø FOR
32.6ØØ NG *Ga*
32.61Ø FOR
32.63Ø FOR
32.68Ø
32.69Ø ARMY
32.7ØØ ARMY
32.71Ø ARMY
32.73Ø NPS
32.75Ø FOR DJ
32.77Ø FOR
32.79Ø FOR
32.81Ø FOR
32.82Ø FOR
32.83Ø FOR
32.85Ø USAF
32.87Ø
32.88Ø
32.89Ø ARMY
32.9ØØ ARMY
32.91Ø ARMY
32.93Ø INT
32.95Ø INT
34.Ø1Ø CG
34.Ø2Ø NOAA
34.Ø3Ø NRG
34.Ø5Ø CG
34.Ø9Ø ARMY
34.1ØØ ARMY
34.11Ø ARMY
34.17Ø USAF
34.19Ø USAF
34.21Ø USAF
34.25Ø FOR
34.26Ø
34.27Ø FOR
34.29Ø ARMY
34.3ØØ ARMY
34.31Ø ARMY
34.37Ø FOR
34.39Ø FOR
34.41Ø FOR
34.43Ø FOR
34.45Ø FOR
34.47Ø FOR
34.49Ø FOR
34.5ØØ ARMY
34.55Ø USN
34.57Ø USAF
34.59Ø USAF
34.61Ø USAF
34.63Ø FOR
34.67Ø FOR
34.69Ø ARMY
34.7ØØ ARMYR
34.71Ø ARMY
34.77Ø INT
34.78Ø REC NPS
34.79Ø NPS
34.81Ø FWS
34.82Ø FWS
34.83Ø FWS *Primary*
34.85Ø INT
34.86Ø MINES
34.87Ø MINES
34.9ØØ ARMY
34.91Ø ARMY
34.98Ø NOAA
36.Ø1Ø INT
36.Ø2Ø NPS
36.Ø3Ø INT
36.Ø7Ø DJ
36.Ø9Ø ARMY
36.1ØØ ARMY
36.11Ø ARMY
36.15Ø NG *Fla*
36.17Ø MINES
36.18Ø BIA
36.19Ø INT GS
36.2ØØ NG *Ky*
36.22Ø GS
36.23Ø INT
36.25Ø EPA-OIL
36.27Ø CG
36.29Ø ARMY
36.3ØØ NG *Fla*
36.31Ø ARMY
36.33Ø NRG

36.34Ø NRG
36.35Ø CG
36.37Ø FOR
36.39Ø NRG
36.41Ø FOR
36.43Ø AGRI
36.45Ø USAF FOR
36.47Ø FOR
36.49Ø ARMY
36.5ØØ NG *Fla*
36.51Ø ARMY
36.55Ø USN USMC
36.57Ø USN
36.61Ø FOR
36.64Ø
36.65Ø AGRI
36.67Ø FOR
36.69Ø ARMY
36.7ØØ ARMY
36.71Ø ARMY
36.73Ø FOR
36.74Ø
36.75Ø FOR
36.77Ø FOR
36.78Ø
36.81Ø USAF
36.83Ø USAF
36.85Ø ANG *SoDak*
36.89Ø ARMY
36.9ØØ ARMY
36.93Ø FOR
36.95Ø FOR
36.97Ø FOR
36.99Ø FOR
38.ØØØ FOR
38.Ø5Ø NG *Fla*
38.Ø8Ø *Monitored at Ft Davis Tex for Radio Astronomy*
38.1ØØ ARMYR
38.16Ø
38.18Ø
38.19Ø
38.2ØØ ARMYR
38.22Ø COMM
38.25Ø USN
38.26Ø GS
38.27Ø CG
38.3ØØ ARMY AIR
38.33O PO *Calif*
38.37Ø FOR
38.39Ø FOR
38.41Ø FOR
38.43Ø FOR
38.45Ø NG *Fla Mo*
38.49Ø ARMY
38.5ØØ NG *Fla Ohio Neb*
38.51Ø ARMY
38.53Ø ARMY
38.54Ø AGRI
38.55Ø AGRI ARMY
38.57Ø FOR
38.58Ø FOR
38,59Ø FOR
38.6ØØ NG *Ala Del* ANG *Ohio*
38.69Ø ARMY
38.7ØØ NG *Fla*
38.71Ø ARMY
38.73Ø FOR
38.75Ø AGRI
38.77Ø FOR
38.78Ø AGRI
38.79Ø FOR
38.82Ø
38.85Ø FOR
38.89Ø USAE
38.9ØØ ARMY/NG *Range Control*
38.91Ø USAE
38.98Ø ARMY TVA *Also used for law enforcement by BIA on Indian reservations in Nebr & Dakotas*
38.99Ø TVA INT
39,Ø15 NASA
4Ø.ØØØ NASA

40.010 NASA BIA
40.016 NASA
40.030 BIA
40.050 FOR
40.070 NPS *Buses*
40.090 ARMY
40.100 ARMY
40.110 ARMY
40.150 USAF
40.170 USAF
40.200 ARMYR
USAFR
NG *Va*
40.210 NPS *Buses*
40.220 FBI
40.230
40.260 DOT
40.300 NG *Ala Fla*
40.310 BIA
40.330 BIA
40.350 GSA
40.370 INT CG
40.390 FWS CG
40.470 NRG
40.490 ARMY
40.500 ARMY
40.510 ARMY
40.530 AGRI USN
40.540 MIL
40.570 TVA INT
40.590 MINES
40.600 NG *Iowa*
40.620 TVA
40.630 CG
40.650 NG *Mont* GS
40.680 *Scientific & Medical experiments.*
40.710 EPA-OIL
40.730 FWS
40.740 TVA
40.750 TVA
40.800 NG *Wisc*
40.860
KGB793 Wash DC (?)
40.870 NASA INT
40.890 ARMY
40.900 ANG *Fla*
NG *Conn*
40.910 ARMY
40.920
40.930 ARMY
40.940 ARMY
40.950 ARMY
40.970 CG INT
40.980 ARMY
41.000 USN *Pacific*
NG *Cal Mo NJ NY Tex Vt*
41.010 NASA INT
41.015 NASA
41.020 ARMY REC
41.030 INT NRG
41.050 NG *NY Helicopt*
41.060 FCC *100 watt mobile monitoring vans*
41.130 NPS MINES
41.140 NPS
41.150 INT
41.200 NG *Maine*
41.210 CG
41.220 CG
41.230 CG
41.250 ARMY
41.270 INT
41.310 NRG
41.330 CG
41.350 USN INT
41.370 REC CG
41.390 CG
41.410 CG
41.430 CG
41.450 NG *Va*
41.470 CG
41.490 ARMY
41.500 ARMYR
NG *Idaho Ind SoDak*
ANG *Pa helicopters*
41.530 AGRI CG
41.550 INT

41.59Ø FAA
41.6ØØ ARMY
41.61Ø FOR
41.63Ø INT EPA
41.65Ø NG *Fla*
41.67Ø NRG
41.69Ø CG FAA
41.7ØØ NG *Fla Kans*
41.71Ø EPA-OIL
41.73Ø CG
41.75Ø CG
41.77Ø NPS
41.78Ø CG
41.82Ø
41.83Ø CG
41.85Ø NG *Mich*
41.9ØØ NG *Conn*
41.94Ø ANG *Wisc*
41.97Ø DJ *Mass*
46.6ØØ USNR
46.61Ø NRG
46.62Ø
46.63Ø INT
46.64Ø USN
46.65Ø NG *NH*
46.66Ø
46.67Ø USN
46.68Ø
46.69Ø ARMY
46.7ØØ ARMYR
NG *Mo*
46.71Ø ARMY
46.74Ø
46.75Ø ANG *NY*
46.76Ø USN
46.77Ø FOR
46.8ØØ NG *Ohio Tex*
46.81Ø INT
46.82Ø
46.89Ø ARMY
46.9ØØ ARMY AIR
46.91Ø ARMY
46.96Ø
46.97Ø FOR
46.99Ø FOR
47.ØØØ NG *Georgia*
47.42Ø RC
47.46Ø RC
47.5ØØ RC
48.8ØØ NG *Utah*
49.ØØØ NG *Calif*
49.61Ø INT
49.62Ø NASA
49.65Ø NG *Minn*
49.67Ø FOR
49.7ØØ NG *RI*
49.71Ø ARMY
49.73Ø NASA INT
49.76Ø ARMYM
49.77Ø INT
49.79Ø ARMY
49.8ØØ ARMY PO
NG *NoDak Tenn*

OPERATION DEEP FREEZE II

NAAO

ICEBREAKER USCGC GLACIER AGB-4

THIS WILL CONFIRM YOUR RECEPTION OF
RADIO STATION NAA2 ON 12 MCS ~~KCS~~ AT
~~2245~~ GMT ON 8 NOVEMBER 1956
POWER: 500 WATTS, ANTENNA: 5 FT WHIP
REMARKS – (WTH, etc.) CMU TO SOUND ANTARCTICA

ANTARCTIC EXPEDITION

signed W. F. Chappell RM1
K. L. Cox RM1

XF133

AIRCRAFT OF THE
MEXICAN AIR FORCE

THIS WILL CONFIRM YOUR RECEPTIO
XF-133F OF THE MEXICAN
2245 GMT 123.1 MHz ON 6 Juli
REMARKS: We were searching for
in Golfo de México. Good luck.

ESV.

Capt. Emilio Sanchez-V.

49.81Ø ARMY
49.82Ø
49.83Ø NASA
49.9ØØ NG *Miss*
49.91Ø INT
49.92Ø COMM
49.93Ø ARMY
49.94Ø ARMYM
49.95Ø NG *NoCar*
49.97Ø AGRI
49.98Ø USAFM
73.ØØØ TO 74.6ØØ BAND
Radio Astronomy
73.8ØØ *Radio Astronomy*
Arecibo PR
Ft Davis TX
Danville IL
Gainesville FL
Houghton MI
74.2Ø *Radio Astronomy*
Arecibo PR
117.975 INT GS NRG TVA
118.55 NG *Mo aircraft*
118.95 FOR
119.975 FOR *helicopt*
12Ø.425 FBI (?)
121.5 AIRCRAFT EMERG
121.935 GS TVA INT
121.96 GS INT
122.Ø FAA *Weather*
122.85 FOR NASA
122.9 CAP FOR INT MINES *& others. Freq. is used for a/g coordination of aero activities including search/rescue, firefighting, etc.*
122.925 FOR INT NRG *Interagency coordination freq for forestry mgt., firefighting, fish/game mgt & protection, environmental monitoring & protection. State agcys also use this freq.*
123.Ø5 *All agencies using helicopters probably use this freq at 1 time or another.*
123.Ø75 *Helicopters--see 123.Ø5.*
123.Ø85 GS
123.1 SEARCH/RESCUE
123.175 NASA
123.585 TVA GS
126.2 MIL
126.4 CG *Helicopters to Cutters land/takeoffs.*
127.125 FCC
Long Beach CA
127.4 BLM *Fire*
13Ø.65 USAF *Military Airlift Command*
131.Ø75 GS
132.Ø1 GS TVA
134.1 MIL
NG *NoDak*
134.3 FBI
Pt Mugu NAS Ca
San Francisco CA
135.85 ARMY
FAA *Freq used by FAA "Flight Check" planes checking airport ILS systems.*
135.95 ARMY
FAA *Same as 135.85 but is secondary freq.*
138.Ø5 ARMY
138.Ø75 USAF
138.1Ø ANG *Tenn*
138.125 USAF
138.15 USAF USMC
138.175 USAF
138.225 USAF
138.25 USAF
138.3Ø USAF

138.325 USAF
138.35 USAF NRG
138.4Ø USAF
138.45 USAFR
138.475 USAF
138.54 USN NSF
138.575 USN
138.62 USN
138.84 USN
138.875 USAF
138.9Ø USAFR
139.ØØ ARMY
139.Ø25 ARMY
139.Ø5 ARMY
139.Ø75 ARMY
139.1Ø NG *Indiana*
139.125 ARMY
139.15 ARMY
139.175 ARMY
139.2Ø ARMYR
139.225 ARMY
139.25 ARMY
139.275 ARMY
139.325 ARMY
139.35 NG *Kentucky*
139.375 ARMY
139.4Ø ARMY
139.425 ARMY
139.45 ARMY
139.475 USMC
139.48 USN
139.5Ø ANG *Wisc*
139.525 USN USMC
139.55 USN
139.6Ø USAF
139.7Ø ANG *NY*
139.725 USAF
139.75 USAF
139.77 NRG
139.8Ø USAF
139.825 USAF
139.85 USAF
139.875 USAF
139.9Ø USAF
139.925 USAF
139.975 USAF
14Ø.ØØ USAF
14Ø.Ø25 USN *Pacific*
14Ø.Ø5 USMC
14Ø.1Ø USN *Pacific*
14Ø,35 USN
14Ø.355 USMC
14Ø.375 USN
14Ø.4Ø USAF-TAC
14Ø.425 USAF
14Ø.49
14Ø.5Ø USN
14Ø.55 USN *Pacific*
14Ø.575 USN *Security*
14Ø.7Ø USN *Fire*
14Ø.82 USN *Security*
14Ø.825
141.ØØ USN
141.Ø25 ARMY
141.Ø45 ARMY
141.Ø6 ARMY
141.125 ARMY
141.255 ARMY
141.275 ARMY
141.3Ø ARMY
141.325 ARMY
141.36 ARMY
141.375 ARMY
141.4Ø *RI Civil Defense Net - FAX frequency*
141.425 ARMY
141.565 ARMY
141.525 USAF
141.55 USN USAF
141.575 USN
141.6Ø USAF
141.65 USAF
141.675 USAF
141.68 NRG
141.7Ø NRG USAF
141.425 USAF
141.75 USAF
141.775 USAF

141.8Ø USAF-MAC
141.825 USAF
141.85 USAF
141.875 USAF
141.9Ø USAF
141.925 USAF
142.125 USAFM
142.155 USAFM
142.2Ø USAF
142.225 USAF
142.23 NRG
142.25 USAF
142.275 USAF
142.3Ø USAF
142.3Ø5 NG *Maine*
142.325 ARMY
142.355 NG *Maine*
142.35 ARMY
142.375 ARMY
142.4Ø ARMY
142.475 ARMY
142.475 ARMY
142.44 ARMY
142.875 ARMY
142.9Ø ARMY
142.9Ø5 NG *Maine*
142.925 ARMY
142.95 ARMY
142.975 ARMY
143.ØØ ARMY
143.Ø5 ARMY
143.Ø75 ARMY
143.1Ø ARMY
143.125 ARMY
143.15 ARMY
143.175 ARMY
143.2Ø ARMY
143.225 ARMY
143.25 ARMY
143.275 ARMY
143.28 CG
143.3Ø ARMY
143.325 ARMY
143.35 ARMY
143.355 ARMY
143.365 ARMY
143.4Ø ARMY
143.415 ARMY
143.425 USAF
143.45 USAF
143.46 USAFM
143.75 USAF
143.775 USAF
143.8Ø USAFR
ANG *Tenn*
143.825 USAF
143.85 USAF
143.875 USAF
143.88 USAF
143.9Ø CAP *(Inpt to 148.15)*
143.925 USAFM
143.95 USAFM
143.98 ARMYM
143.99 ARMY
148.ØØ MIL
148.Ø1 USNM
148.Ø25 ARMY
Also used by RI Civil Defense net.
148.Ø5 USAF
148.Ø75 USAF
148.1Ø USAF
148.15 CAP *Simplex & Rpts 143.90*
148.175 USAF
148.195 ARMY *A reporter in SD advises of a repeater on this freq which is used by Minuteman Missile Sites -- input freq 165.16. May be similarly used in other areas too.*
148.2Ø USAF
148.225 USAF
148.245 USAF

148.25 NASA
148.26 NASA
148.275 GS
148.3Ø5 CG
148.375 USNM GS
148.41 USNM
148.43 USN *Security*
148.45 USAF
148.47 NRG
148.485 USAF
148.5Ø USAF
148.525 USAF
148.545 USAF
148.55 ARMY
148.56 NASA
148.575 ARMY
148.6Ø ARMY
148.625 ARMY
148.65 ARMY
148.695 ARMY
148.7Ø ARMY
148.725 ARMY
148.7Ø ARMY
148.75 ARMY
148.775 ARMY
148.8Ø ARMY
148.815 ARMY
148.825 ARMY
148.835 USNM
148.85 ARMY
148.875 ARMY
148.9Ø5 USN *Pacific Disaster Network*
148.925 ARMY
148.95 USNM GS
148.98 NASA
149.ØØ CG
149.125 GS
149.15 USAF
149.175 USAF *Security*
149.195 NOAA
149.2Ø5 USAF *Security*
149.22 NASA
149.225 USAF
149.25 USAF
149.275 USAF GS
149.3Ø USAF
149.31 ANG *Kans*
149.325 USAF
149.35 USN
149.375 FBI *FBI Academy, Quantico Va*
149.375 USAF *Southwest Traffic Network*
149.4Ø USN
149.425 NRG
149.45 GS
149.47
149.475 USAF
149.5Ø USAF
149.52 NASA
149.575 ARMY
149.6Ø ARMY
149.625 ARMY
149.65 ARMY
149.67 ARMY
149.725 ARMY
149.775 ARMY
149.79
149.98 ARMY
149.82 NASA
149.825 ARMY
149.85 ARMY
149.875 ARMY
149.925 USAF
149.95 CG
149.988 NASA
15Ø.ØØ NASA
15Ø.Ø85
15Ø.Ø9 USNM
15Ø.115
15Ø.15 USAF GS
15Ø.175 USAF
15Ø.19
15Ø.195 USAF
15Ø.2Ø USAF ANG *Calif*
15Ø.225 USAF

150.25 USAF
150.275 USAF
150.325 USAF
150.34
150.35 USAF
150.39 USN *Atlantic*
150.425 ARMY
150.43
150.435 ARMY *Security*
150.50 ARMY
150.525 ARMY
150.55 ARMY
150.555 ARMY *Security*
150.575 ARMY
150.60 ARMY
150.625 ARMY
150.65 ARMY
150.675 ARMY
150.70 ARMY
150.69
150.725 ARMY
150.75 ARMY
150.76
150.845
150.98 EPA-OIL
153.185 FCC
Wash DC
154.20 NASA
154.585 EPA-OIL
156.275 CG *Ch 65*
156.30 CG *Ch 6*
156.39 FBI
Fresno Cal
156.57 FBI
Medford Ore
156.60 CG *Ch 12*
156.69 FBI
Denver Colo
156.70 CG *Ch 14*
156.75 *Ch 15 Environmental operations*
156.80 MARITIME CALLING & EMERG *Ch 16*
157.05 CG *Ch 21*
157.075 CG *Ch 81 Often used for oil spill cleanup.*
157.10 CG *Ch 22A Used for navigational broadcasts to mariners & for CG communications with civilian vessels after initial contact Ch 16.*
157.125 USAE GS *Ch 82*
157.15 CG *Ch 23*
157.175 CG-*Aux Ch 83*
157.50 CG *Reserve*
157.65 CG *Reserve*
158.445 EPA-OIL
159.48 EPA-OIL
160.65 IBP
El Paso Tex - operates in AT&SF RR communic system.
161.58 EPA-OIL
162.00 NASA
162.025 AGRI TVA
162.05 GS ARMY NRG
162.075 EPA NOAA COMM
162.10 NRG
162.15 NOAA
162.175 GS IBW NOAA
162.225 PO *Cal Col Fla Ga Ill Mass Md NC NJ Ohio Okla Tenn Tex Va*
162.25 USN *Atlantic*
FAA REC
162.26
162.265
162.275 FAA
162.30 FAA
162.325 FAA
162.375 SECSERV
162.40 NOAA *Weather BC*
162.425 NOAA *Weather BC*
162.45 NOAA *Weather BC*
162.475 NOAA *Weather BC*
162.50 FAA
162.525 NOAA *Weather BC*
162.55 NOAA *Weather BC*
162.585 AGRI

USAE *Ch 4*
CUST
PO *DC Ga Kans Minn Tn Ut*
163.Ø1
163.Ø25 BLM *Fire*
REC *Tualatin Proj*
USAE *Ch 2*
163.Ø5 BLM *Fire*
REC TVA
163.Ø75 BLM *Fire*
MINES *(Rpts 168.375)*
REC
163.Ø85 IBP
McAllen TX
163.1Ø NASA INT DOT
163.125 BIA REC TVA
USAE
163.15 BIA TVA GS
163.175 BLM *Fire*
BIA TVA GS
163.185 DEA
USAF *CID & Police*
163.2Ø MRSHL *Ch 1*
(Rpts 163.18)
163.225 NOAA GS COMM
163.275 NOAA
163.3Ø NOAA GS INT
163.31 FBI
Detroit MI Ch BLUE 2
163.325 NOAA GS
163.36 SECSERV
163.375 TVA
USN *Ships*
PO *Cal Ga Ill Md Minn*
NC NY Oh Pa Tn Wa
163.39 REC GS
163.395 GS
163.4Ø SECSERV
163.41 USAE *Ch 3* CG
163.435 EPA USAF
163.45 IBP
Yuma AZ
163.46 USAF/ARMY
Police & Base Security
163.485 USAF/ARMY
Police & Base Security
FBI:
Andrews AFB MD
Tinker AFB OK
163.51 USAF/ARMY
Police & CID
163.535 DEA
USAF/ARMY *Civil Engnrng*
163.55 ARMY
163.56 ARMY *MP's*
USAF
163.585 ARMY USAF
163.6Ø5 GS
163.61 GS
163.625 IBP
Blaine WA
Buffalo NY
Calais ME
Charl Amalie VI
Chula Vista CA
Columbus NM
Del Rio TX
Derby Line VT
Detroit MI
El Paso TX
Gr Forks ND
Havre MT
Houlton ME
Houston TX
Laredo TX
Livermore CA
McAllen TX
Mt Lyons CA
New Orleans LA
New York NY
Ogdensburg NY
Presidio TX
Rouses Pt NY
San Antonio TX

162.59 GS
162.613 AGRI
162.625 USN *Atlantic*
162.635
162.685 SECSERV *Ch YANKEE used by Air Force 1 (rpts 171.285). Because most of agency's opns require portable stations, this & other SECSERV freqs are subject to use in all areas.*
162.7Ø
162.71
162.735
162.75 MIL
162.76
162.77
162.785
162.8Ø5 ARMY GS REC
162.825 CUST
IBP *in:*
Buffalo NY
Calais ME
Calexico CA
Chula Vista CA
Houlton ME
Houston TX
Lynden WA
Mobile AL
New York NY
Opheim MT
Pensacola FL
Pine Creek MN
Pt Huron MI
Sweetgrass MT
Trenton MI
Wolf Point MT
Yuma AZ
162.845
162.85 IBP
Los Angeles CA
(Input to 163.75)
162.85 WHS
This & other freqs indicated as WHS used by President's staff so may be monitored in any area President visits.
162.86 ARMY
162.865
162.875 IBP
Calexico CA
Chula Vista CA
El Centro CA
Hidalgo Cnty TX
McAllen TX
Mercedes TX
Presidio TX
Rio Grande TX
162.89 ARMY
162.9Ø IBP
Houlton ME
162.925 IBP
Baton Rouge LA
Blaine WA
Bonners Fy ID
Buffalo NY
Christnstd VI
Chula Vista CA
Gulfport MS
McAllen TX
Ogdensburg NY
Ponce PR
St John VI
Yuma AZ
162.95 IBP
Laredo TX
162.975 USAF
IBP *in*
El Centro CA
Lochiel AZ
Mercedes TX
Presidio TX
163.ØØ BLM *Fire*

San Clemente CA
San Juan PR
Seattle WA
Spokane WA
Tampa FL
Tucson AZ
Van Buren ME
Washington DC
Yuma AZ
163.15 IBP
Laredo TX
163.675 IBP
Blaine WA
Buffalo NY
Calais ME
Christnstd VI
Derby Line VT
Detroit MI
East Florida
Gr Forks ND
Havre MT
Houlton ME
Mt Santiago CA
New Orleans LA
Ogdensburg NY
Pt Huron MI
Rouses Pt NY
Seattle WA
Tampa FL
Van Buren ME
Yuma AZ
New Mexico areas

163.7Ø USAF ARMY
IBP *in*
El Paso TX
Imperial Bch CA
163.725 IBP
Chula Vista CA
Livermore CA
Marfa TX
New York NY
Oxnard CA
San Clemente CA
San Luis Obispo CA
Yuma AZ
163.75 INT
USN *Ships*
IBP
Los Angeles CA
(Rpts 162.85)
San Antonio TX
163.775 DOE
IBP *in*
Mc Allen TX
Nogales AZ
Pittsburgh PA
San Clemente CA
Yuma AZ
New Mexico areas

FERRET 2

AIRCRAFT OF THE
UNITED STATES AIR FORCE

THIS WILL CONFIRM YOUR RECEPTION OF STATION FERRET 2 OF THE U.S.A.F. AT 1622 Z
292.1 MHz ON JAN 24 1979, 19____.
REMARKS: Mission and type of aircraft classified, sorry. How did you find us, anyway?

Col. USAF

AAS

UNITED STATES ARMY
EATONTOWN, N.J.

This will confirm your reception of station AAS on 6420kc 11 February, 19 49 at 3:34 PM EST.
Power: 400, Antenna: Full Wave Vertical
Remarks: Ref.Call Letters, they are confidential assignment to Air Force, are not available. 2UV-1 is located at Rome N.Y. All call letters with suffix is assigned to Watson Labs.above
Address/

Chief Operator

163.795 INT
163.81 CIA SECSERV
MRSHL *(Input to 163.20)*
FBI *in*
San Francisco CA
Washington DC
163.825 FBI
Detroit MI
163.835 REC
FBI *in*
Boston MA Ch 2
Jacksnvl FL
Norfolk VA Ch 4
(Rpts 167.6Ø)
San Francisco CA
Va Bch VA (Rpts 167.6Ø)
E PA "Cave" surveillance
(Rpts 167.385)
163.86 INT
FBI *Boston MA*
163.875 FBI
Cleveland OH
Dayton OH
Detroit MI
Portland OR
Washington DC
163.885 REC *Gr. Coulee Proj*
FBI
Boston MA
Detroit MI Ch GOLD 1
(Rpts 167.75)
New Haven CT Ch 1
Providence RI
San Francisco CA
Ch BLUE 1 SF & W Bay
Ch GOLD 1 SF E Bay & Marin
Connecticut statewide
PA VA NC
163.91 FBI
Denver CO
Kansas City MO
New York NY (surveillance)
Mt Laguna CA
San Diego CA
San Francisco CA BLUE 5
Twin Falls ID
Westchester Cnty NY
(Ch ECC 1 Rpts 167.525)
163.925 ARMY *MP's*
FBI
Chelsea MI
Detroit MI
Flint MI
Kanas City MO
Millington MI
New York NY
Onondaga MI
St Ignace MI
San Francisco CA
Whiteface NY
Western PA (?)
163.935 INT
FBI
Isabel SD
KY Statewide
Lexington KY
Los Angeles CA Ch 1
(Rpts 167.785)
Mingus Mtn AZ
Mt Lemmon AZ
Newark NJ Ch ECC 1
(Rpts 167.15)
Parker SD
Phoenix AZ
(Rpts 167.15)
Reliance SD
Telegraph AZ
Terry Pk SD
White River SD
Whitetanks AZ
Minn ND SD
163.95 FBI
Chicago IL Rpts 167.60
New York NY BLACK 3
(surveillance)
San Francisco CA GOLD 5

DE MD FL

163.96 FBI
Franklin Mtn TX
Houston TX Rpts 167.36
Indianapolis IN Rpts 167.21
Miami FL
Mt Clemens WA
Mt Constit WA
Mt Spokane WA
Olympia WA
Portsmouth OH
Quitman Pk TX
San Francisco CA
Squak Mtn WA
Washington DC
W Palm Bch FL

163.975 FBI
Boston MA (may Rpt 167.975)
Buffalo NY Ch 5
Detroit MI
San Francisco CA
Conn (Rpts 167.325)

163.985 BLM *Fire*
FBI
Chillicothe OH
Cleveland OH
Cloudcroft NM
Cotulla TX
Jacks Peak NM
Kansas City MO
Laredo TX
Los Angeles CA Ch 1 (Rpts 167.275)
McAllen TX
Phila PA Rpts 167.325
San Antonio TX
Santiago Pk CA
Weslaco TX
Fla (Rpts 167.385)

164.005 GS
164.01 GS
164.025 COMM
164.05 GS NSF
164.075 GS
164.10 FOR NPS
PO *Mn Pa PR*
GS *(inpt to 164.80)*
164.125 GS FOR
164.15 FOR
164.175 FOR IBW REC
PO *Cal Col Ga La Minn Tenn Wash*
164.20 USAE INT NPS CG
PO *Ga Ia Minn NJ Oh Pa*
REC *Mindoka Project*
164.225 NRG
164.25 USED TVA GS REC NPS
164.26 FBI
San Francisco CA WHISKEY 1
164.275 NRG GS
FBI
San Francisco CA WHISKEY 2
164.30 NRG CG
164.325 NRG NSF
164.35 NRG NSF
164.375 NRG FOR
164.40 NRG INT
ATF
SECSERV *Ch PAPA*
164.41 FBI
Olympia WA
164.425 NPS IBW
ARMY
REC *Yakima Hydromet*
164.435 NPS
164.45 EPA
164.46 NPS
FBI
Olympia WA
164.475 IBW GS NPS BIA
REC *Gr Coulee Proj & Yakima Project*
164.485 NPS
164.50 USN *Ships* NSF
PO *Fl Ia Md Pa*
164.51 NPS

164.525 REC GS
164.535 REC
164.55 REC NPS
164.56 NPS
FBI *San Francisco CA*
164.575 REC
164.585 NPS TVA
164.6Ø MRSHL FOR
PO *Cal Col*
164.61 NPS TVA
164.625 INT FWS ARR
ARMY
164.635 NPS TVA
164.65 SECSERV *Ch TANGO*
164.66 NPS TVA
164.675 NPS GS NRG
MINES *(Rpts 169.825)*
164.68 NPS TVA
164.7Ø FOR NSF
PO *Al Fl Ga Ia Mo Ne Or Pa*
164.71 NPS
164.725 NPS REC MINES
164.75 SECSERV NRG
REC *Mindoka Project*
164.775 BIA REC FOR
164.8Ø AGRI REC
GS *(Rpts 164.1Ø)*
BIA *AZ Police*
164.815 *unid agency*
Crown Point IN
164.825 GS AGRI
164.83
164.84 GS
164.845 GS
164.86 BIA *Police*
Flagstaff AZ
164.875 USN *Atlantic* FOR
164.885 FOR
SECSERV *Ch OSCAR (Presidential limo)*
164.91 FOR
164.925 FOR
164.935 FOR
164.96 USAE
PO *Ca Conn Ill Ky Mich NJ Ohio Pa Wa*
164.975 AGRI
164.985 NPS
GS *Yakima Project*
PO *Cal Ill Ky Ma Minn Mo NJ Ohio*
165.Ø1 CIA ARMY
USAF *Base Operations*
165.Ø25 SECSERV *Ch NOV.*
165.Ø35 USAE USAF
165.Ø6 ARMY USAF
165.Ø85 ARMY USAF
SECSERV *Ch HOTEL Rpts 166.215*
165.11 CIA USAF ARMY
165.135 USAF ARMY
Maint & Base Operations
165.16 NPS ARMY USAF
165.185 ARMY USAF
165.2Ø5 TREAS
165.21 CG NSF
SECSERV *Ch MIKE Visiting Dignitaries*
165.235 DEA
SECSERV *Ch ALFA*
CUST *Primary freq most areas (Rpts 166.435)*
165.25 USN *Ships*
165.26 CG AGRI NRG
165.285 CUST DEA
ATF *Ch 1 Primary Freq (Rpts 166.535)*
165.29 DEA
165.31 CG
165.335 BIA CG
FAA *(Inpt to 166.175)*
GS *(Inpt to 166.175)*
165.355 ATF
165.36
165.375 ATF
SECSERV *Ch CHARLIE (Rpts 166.4Ø &/or 165.9Ø)*

165.385 CIA
165.4Ø
165.41 USAF USAE EPA
REC
165.435 FAA GS
165.46 TREAS INT COMM
165.485 GS
165.49 TREAS
165.5Ø FAA *Ch 1 Security*
165.51 INT FOR
165.525 FBI *San Francisco*
165.535 NOAA FAA GS
165.585 NOAA
165.61 FAA
165.625 USN *Ships* FAA
165.635 FAA
165.66 FAA *Ch 2 Security*
165.675 SECSERV
165.685 SECSERV INT
165.7Ø
165.71 INT GS
BIA *Police*
Flagstaff AZ
165.735 FAA
165.76 SECSERV *Ch GOLF*
165.785 SECSERV *Ch BAKER*
"Escort" frequency
165.8Ø5 GS
165.81 GS
165.825 IBP
Big Mtn MT
Milton ND
165.85 NRG
165.87
165.875 IBP
Gr Portage MN
New York NY
Rio Grande TX
Rosillos TX
165.9Ø IBP
Jacksonville FL
Tolman Hill ME
Washington DC
SECSERV *(Inpt to 165.375)*
165.91 TREAS
165.925 IBP
Whites Hill NY
NPS *(Inpt 166.925)*
WHS
165.95 TREAS *Ch 2*
Surveillance freq
165.975 NPS INT
IBP *in*
Hipass CA
Hudson Div MT
Laredo TX
166.ØØ USN *Ships*
INT REC
166.Ø25 NOAA DOT REC
166.Ø5 COMM NSF
166.Ø75 GS
166.Ø85 FAA
166.1Ø FAA COMM
166.125 GS *(Inpt to 169.225,*
166.15 COMM
166.175 FAA DOT
GS *(Rpts 165.335)*
166.19
166.2Ø ATF
Washington DC
INT
PO *Me Md Mass SC Va*
166.21 SECSERV *Ch HOTEL*
(Input to 165.Ø85)
166.225 TVA INT
PO *Fl Ill Mo*
166.235
166.25
166.625
166.275 NRG INT TVA
GS *(Inpt to 166.875)*
PO *Pa*
166.3Ø DOT INT
REC *Chief Jos Dam Proj*
NPS *(Inpt to 166.90)*
166.31
166.325 TVA FWS REC INT
NPS-*(Inpt to 166.925)*

166.35 NPS
REC *Cntrl Vly Project*
GS *(Inpt to 166.95)*
166.375 NPS TVA GS REC
PO *NY Mass*
166.4Ø5 SECSERV *Ch PAPA*
ATF *(Inpt to 165.375)*
166.41 ATF
166.42 GS
166.425 FOR
166.435 CG
CUST *(Inpt to 165.235)*
166.46 ATF *Ch 4* CG
CUST *Ch 3*
166.475 IBW FOR
166.485 INT
166.5Ø FBI
San Jose CA
166.51 SECSERV *Ch ALFA or Ch SIERRA*
166.525
166.525 PROTEC
166.535 ATF
166.55
166.56 FOR
166.575 FOR
166.58
166.585 TREAS
166.6Ø NPS *car/car*
166.615 SECSERV
GS *Forest Fire Ch*
PO *Wash*
166.635 NPS REC
166.655 GS
166.655 GS
166.675 MINES NRG NPS
INEFC *Ch AIR TAC 1*
166.7Ø SECSERV *Ch QUEBEC*
166.725 NPS MINES REC
FOR *Fire Operations*
166.75 ATF REC GS
166.775 NPS *Fire Ops*
166.8Ø GS REC
166.825 TVA REC GS BIA
166.85 NPS REC
166.875 ATF NOAA REC TVA
GS *(Rpts 166.275)*
166.9Ø BIA
NPA *(Rpts 166.3Ø)*
166.925 FWS
BLM *Fire*
REC *Cntrl Vly Project*
NPS *(Rpts 166.325)*
166.95 REC NPS
GS *(Rpts 166.35)*
166.975 REC
167.ØØØ TREAS
INT *Fire*
167.Ø25 WHS INT NPS
167.Ø3
167.Ø35
167.Ø5 FCC *Agcy now seems to have repeaters this freq at most field offices for use during inspections & investigations. Input freqs are 172.Ø5 & 172.8Ø.*
167.Ø75 GS
167.1Ø INT
FOR *Fire Opns*
167.11
167.125 FOR TVA REC
MINES
USN *Ships*
PO *Md NJ Va*
167.135
167.15 FBI
Knoxville TN
New York NY
Phoenix AZ (Inpt to 163.935)
Westchester Cnty NY (Ch ECC 1 Inpt to 163.91)
167.16

167.175 TVA
REC *Cntrl Vly Proj*
167.185
167.195 GS
167.2Ø
167.21 FBI
Alamogordo NM
Albuquerque NM
Brownsville TX
Cloudcroft NM
Del Rio TX
Deming NM
El Centro CA
Indianapolis IN (Inpt to 163.96)
Laredo TX
Las Cruces NM
McAllen TX
Mt Laguna CA
Mt Soledad CA
New York NY Ch GOLD 1
Oceanside CA
San Antonio TX
San Francisco Ch 1
167.22 FBI
Anchorage AK
Buffalo NY Ch 2
Coeur D'Alene ID
Ft Lauderdale FL
Geneva NY
Glasgow MT
Gt Falls MT
Homestead FL
Jamestown NY
Kalispell MT
Kansas City MO
Key West FL
Ltl Vlt Twp NY
Miami FL
Niagara Fls NY
Rochester NY
San Francisco CA
W Palm Bch FL
NJ VA
167.235 FBI
Anchorage AK
Dayton OH
Mesa AZ
Mingus Mtn AZ
Mt Lemmon AZ
Nogales AZ
Norfolk VA Ch 2 (bugs noted this freq Norfolk area)
Phoenix AZ
Safford AZ
San Francisco CA Ch BLUE 5
Superior WI
Tucson AZ
Whitetanks AZ
Yuma AZ
167.25 FBI
Burlington VT
Denver CO
Detroit MI
Glens Falls NY
Helderburg NY
Plattaburgh NY
San Angelo TX
San Francisco CA
Smith Hill NY
Syracuse NY
Utica NY
Watertown NY
167.26 FBI
Bay City MI
Chelsea MI
Detroit MI
El Paso TX
Flint MI
Marquette MI
Millington MI
Monroe MI
Mt Franklin TX
Newark NJ Ch 3
Quitman Pk TX
San Francisco CA Ch BLUE 1 or 3

(Rptd on 414.375)
Traverse MI
167.275 FBI
Boston MA Ch 1
Okla City OK
Portland ME
New Haven CT
Providence RI
Mass NY PR Va
167.285 FBI
Buffalo NY Ch 3
Geneva NY
Indio CA
Jamestown NY
Los Angeles CA Ch 1
(Input to 163.985)
Ltl Vly Twp NY
Mayville NY
Niagara Falls NY
Palm Springs CA
Rochester NY
Santiago Pk CA
Toledo OH
Worden Hill NY
167.3Ø FBI
Kansas City MO
New York NY Ch BLUE 3
Pierre SD
Sioux Falls SD
Rapid City SD
IBP
Bemidji MN
Gr Forks ND
Minot ND
167.31 FBI
Bay City MI
Chelsea MI
Detroit MI
El Paso TX
Flint MI
Honolulu HI
Marquette MI
Millington MI
Monroe MI
Mt Franklin TX
Quitman Pk TX
Slt Ste Marie MI
Traverse MI
167.325 FBI
Boston MA
Brownsville TX
Del Rio TX
Laredo TX
McAllen TX
New Haven CT
Phila PA Ch 1
(Inpt to 163.985)
Providence RI
San Antonio TX
DE Mass Mich NJ PR
167.335 FBI
Bellingham WA
Bremerton WA
Chicago IL
Mesa AZ
Minws Mtn AZ
Mt Constit WA
Mt Lemmon AZ
New York NY Ch BLACK 2
Nogales AZ
Phoenix AZ
Safford AZ
San Francisco CA
Ch BLUE 3 or 5 Rptd
on 414.375
Seattle WA
Spokane WA
Sqwak Mtn WA
Tucson AZ
Wenatchee WA
Whitetanks AZ
Yuma AZ
167.34 A NY City area monitor reports hearing a room bugging transmitter on 167.3425.
167.35 USAF

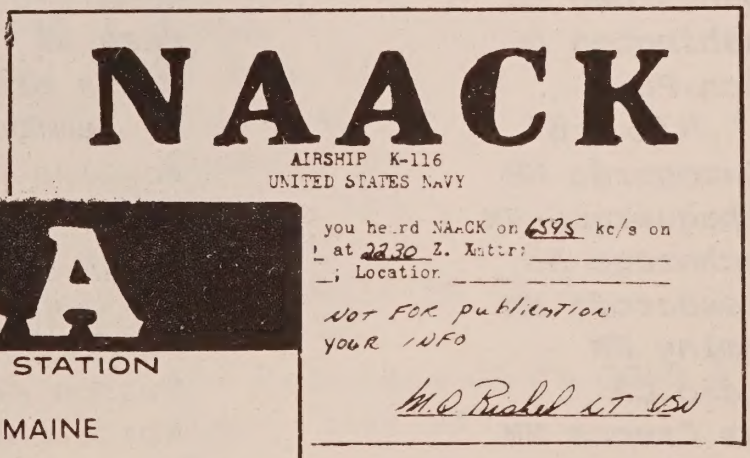
167.36 FBI
Anchorage AK
Bay Area CA (Rptd on 414.55)
Alamogordo NM
Albuquerque NM
Cloudcroft NM
Corp Christi TX
Deming NM
Houston TX (Inpt of 163.96)
Las Cruces NM
San Francisco CA
Toledo OH Ch GOLD 2

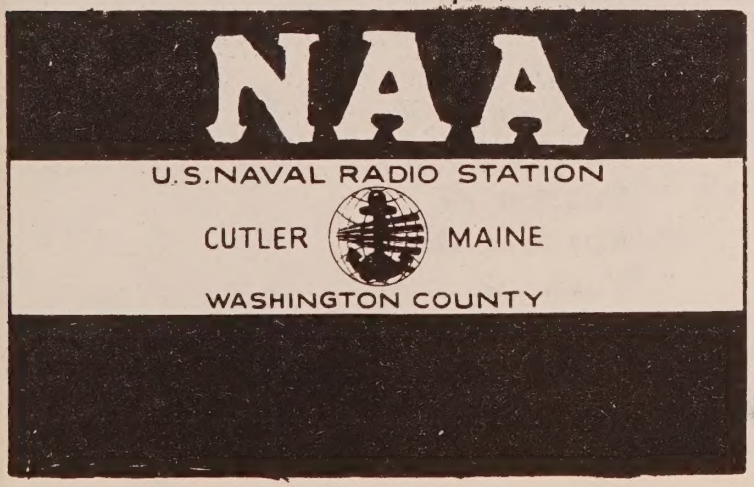
167.375 FBI
Bemidji MN
Charl Amalie VI
Coeur D'Alene ID
Buluth MN
Glasgow MT
Gr Forks MT
Gr Fls MT
Minot ND
New York NY Ch GOLD 2
Pierre SD
Sioux Falls SD
Rapid City SD
Del Md NY PR

167.385 FBI
El Centro CA
El Paso TX
Kansas City MO
Mt Franklin TX
Mt Laguna CA
Mt Soledad CA
Oceanside CA
Quitman Pk CA
San Angelo TX
San Francisco Ch BLUE 4
Fla Ch 1 Inpt 163.985
PA Ch ECC-1 Inpt 163.835
Texas

167.395 FBI
San Francisco CA Ch GOLD (?)

167.4Ø FBI
Bay City MI
Burlington VT
Chelsea MI
Detroit MI Ch BLUE 3
Flint MI
Glens Flls NY
Helderberg NY
Marquette MI
Millington MI
Monroe MI
Plattaburgh NY
San Francisco CA Ch GOLD 3
Slt Ste Marie MI
Smith Hill HY
Syracuse NY
Traverse MI





Utica NY
Watertown HY

167.41 FBI
Baltimore MD
Bellingham WA
Bremerton WA
Brownsville TX
Del Rio TX
Laredo TX
McAllen TX
Mt Constit WA
New York NY
Seattle WA
Spokane WA
Squak Mtn WA
Wenatchee WA
Mont Ore

167.425 FBI
Atlanta GA
Boston MA
Akron OH
Cleveland OH
New Haven CT Ch 1
(Input to 163.975)
Plainesville OH
Providence RI
Sandusky OH
Toledo OH Ch BLUE 1
Youngstown OH
Washington DC
Conn Pa

167.435 FBI
Alamogordo NM
Albuquerque NM
Anchorage AK
Cloudcroft NM
Deming NM
Indio CA
Las Cruces NM
Los Angeles CA Ch 2
Palm Springs CA
Santiago Pk CA

167.45 FBI
Corpus Christi TX
Detroit MI
Portland OR
PA &/or MD bank robbery frequency
Bellingham WA
Bremerton WA
El Centro CA
Houston TX Ch 3
Kansas City MO
Mt Constit WA
Mt Laguna CA
Mt Soledad CA
New York NY Ch GOLD 3
Oceanside CA
Seattle WA
Spokane WA
Squak Mtn WA
Wenatchee WA

167.46 FBI
Kansas City MO
New York NY
Seattle WA
San Francisco CA Ch GOLD 2

167.475 FBI
Portland OR
Washington DC
PR VI

167.485 FBI
Honolulu HI
Mesa AZ
Mirws Mtn AZ
Mt Lemmon AZ
Nogales NM
Okla City OK
Phoenix AZ
Portland OR
Safford AZ
Tucson AZ
Whitetanks AZ
Yuma AZ
(Several reports have been received regarding room bugs on this freq.)

167.5Ø USN *Ships*
FBI
Ft Lauderdale FL
Homestead FL
Key West FL
Miami FL
Phila PA Ch BLUE 3
W Palm Bch FL
167.51 FBI
Akron OH
Cleveland OH
Painesville OH
San Angelo TX
San Francisco CA Ch BLUE
Toledo OH Ch BLUE 2
Youngstown OH
167.525 FBI
Newark NJ Ch 5 & ECC-1 (Inpt to 163.985)
Washington DC
Md NY
167.55 FBI
Kansas City MO
167.56
Channel BLUE 4 is the "common" freq used by all offices & mobile units, especially for surveillance of moving vehicles. Also noted being used with selective calling tones in some areas now.
167.575 FBI
Ft Lauderdale FL
Miami FL
New York NY
Del Md NJ Pa PR
W Palm Beach FL
167.585 FBI
Portland OR
167.6Ø FBI
Ch BLUE 3 nationwide car/car freq.
Bronx NY
Denver CO
Indio CA
Chicago IL (Inpt to 163.95)
New Rochelle NY
Norfolk VA Ch 1 (Inpt to 163.835)
Palm Springs CA
Santiago Peak CA
Westchester NY
Va Bch VA (Inpt to 163.835)
167.61 FBI
Alameda/Marin Co CA (?)
Coeur D'Alene ID
Glasgow MT
Gr Falls MT
Kalispell MT
Lexington KY
Kansas City MO
Newark NJ Ch 2
Topeka KS
167.625 FBI
Portland OR
San Francisco CA Ch BLUE 1 (Rptd on 414.80/417.10)
Superior WI
MRSHL
167.635 FBI
Boston MA
Superior WI
167.65 FBI
Dayton OH
Los Angeles CA Ch 3
Pierre SD
San Francisco CA Ch GOLD 1
Sioux Falls SD
IBP
Bemidji MN
Duluth MN
Minot ND

167.66 FBI
Balto MD Ch 1
Burlington VT
Glens Flls NY
Helderburg NY
Plattsburgh NY
Smith Hill NY
Syracuse NY
Utica NY
Watertown NY

167.675 FBI
Lexington KY (Inpt to 163.935)
San Francisco CA
Toledo OH Ch GOLD 1
IBP
Duluth MN
Bemidji MN
Minot ND

167.685 FBI
Cleveland OH
Denver CO
Ft Lauderdale FL
Homestead FL
Long Island NY
Key West FL
Miami FL
New York NY Ch BLUE 2 (bank robbery alarms)
Phila PA
San Francisco CA
Sacramento CA
W Palm Beach FL

167.7Ø FBI
New Rochelle NY

167.71 FBI
Kansas City MO
Phila PA Ch 2
San Francisco CA Ch GOLD 5
Topeka KS

167.725 FBI
Cleveland OH
San Francisco CA

167.735 FBI
Portland OR

167.75 FBI
Los Angeles CA Ch 3

167.76 FBI
Buffalo NY Ch 2
Geneva NY
Jamestown NY
Ltl Vly Twp NY
Mayville NY
Niagara Fls NY
Rochester NY
Worden Hill NY
PR VI

167.775 FBI
Long Island NY
New York NY Ch BLUE 1
San Francisco CA

167.785 FBI
Akron OH
Cleveland OH
Corp Chrsti TX
W Los Angeles CA Ch 1 (Inpt to 163.925)
Painesville OH
Portland OR
Sandusky OH
Superior WI
Toledo OH Ch BLUE 3
Wisc statewide
Youngstown OH

167.8Ø5 FBI
Atlanta GA
REC GS

167.81 INT

167.825 WHS NRG GS REC

167.85 NRG

167.86

167.875 FBI
Toledo OH
USN *Ships*
NRG NASA

167.885

167.9Ø INT GS
167.91
167.925 FBI
Los Alamos NM
San Francisco CA
NRG
167.95 INT
GS *Inpt to 168.55*
167.975 NRG VA ARMY
DCPA
167.985 FBI
Boston MA (Rptd on 163.975)
W. Los Angeles CA Ch 5
168.ØØØ USAF *Medical* VA
PO *Ariz Colo*
168.Ø25 ATF
INEFC *Inpt of 168.625*
168.Ø5 INEFC *Ch TAC 1*
168.Ø75 INT
INEFC *Ch COMMAND 3*
(Rpts 17Ø.425)
168.1Ø INEFC *Ch COMMAND 2*
(Rpts 17Ø.45)
168.125 FOR GS
168.15 FOR
168.175 FOR *Intersystem*
168.2Ø INEFC *Ch TAC 2*
168.22 SECSERV
168.225 TVA GS INT
168.25 FOR *Fire*
USN *Ships*
168.275 GS REC
168.3Ø GS BLM NRG
BVP-*Emergencies*
(Inpt to 172.5Ø)
168.325 USAE NRG
REC *Minidoka Project*
BVP *Operations*
(Inpt to 172.525)
168.35 NASA AGRI
168.375 BIA REC
MINES-*(Inpt to 163.Ø75)*
168.4Ø SECSERV REC
MINES
FOR *Fire ops*
168.425 FOR GS
168.45 SECSERV GS
REC NRG
168.475 NPS REC BLM
GS
168.5Ø REC
168.525 VA NPS
PO *Ga Md*
GS/BLM *(Rpts 169.4Ø)*
168.55 BIA GS
FOR *Fire Ops (Rpts 167.95)*
168.575 SECSERV BLM VA
FOR *(Inpt to 169.55)*
REC *Colmb Rvr Bsn Civ Cnsv*
168.6Ø INEFC *Ch TAC 3*
168.625 REC
INEFC *Aero (Rpts 168.Ø25)*
168.63 CUST
168.65 FOR
168.675 FOR
168.68
168.7Ø INEFC *Ch COMMAND 1*
(Rpts 170.975)
168.725 FOR
168.75 FOR
168.775 FOR *Intersystem*
168.785 WHS
168.8Ø GSA
168.825 IBP
Buffalo NY
El Centro CA
Ogdensburg NY
168.85 INT
168.86
168.875 IBP
Washington DC
168.885 FBI
San Francisco CA
168.9Ø
168.91

168.925
168.935
168.95
168.965
168.975 INT
IBP
Detroit MI
168.985
169.ØØ USN *Ships*
PO *Fl Md Neb*
(Inpt to 169.85)
169.Ø1 INT
169.Ø25 NOAA GS EPA
INT
169.Ø35 INT
169.Ø75 NOAA GS BLM
169,.1Ø INT NRC AGRI
REC *Cntrl Snk Rvr Proj*
169.11 PO *NY*
169.125 FOR
169.15 INEFC *Ch AIR TAC 2*
169.175 FOR
169.2Ø INEFC *Ch AIR TAC 3*
169.225 FAA
GS-*Rpts 166.125*
169.25 INT FAA
USN-*Atlantic*
169.275 NRG AGRI
169.3Ø FAA
169.325 INT AGRI
169.35 NOAA
169.375 GS FAA NOAA
USN *Ships*
169.4Ø TVA INT
REC *Clmbia Bsn Proj*
BLM/GS *Inpt of 168.525*
169.425 USAE REC
GS-*Rpts 171.925*
169.45 USAE FOR
169.475
169.5Ø NRG TVA
GS-*Rpts 171.825*
169.525 USAE IBW
169.55 CUST EPA
REC *Gr Coulee Project*
NPS *(Rpts 168.575)*
INEFC *(Inpt to 17Ø.Ø5)*
169.575 MINES GS
169.6Ø FOR
PO *Mo Pa*
169.61 STATE *Security*
169.625 STATE
SECSERV *Ch ABLE*
GS REC
169.65 PO *Ch BLUE*
NPS
169.675 REC NPS
169.7Ø INEFC *Ch AIR TAC 4*
169.725
169.75 MINES
USN *Ships*
REC *Cntrl Snake Proj*
169.775 REC GS
169.8Ø NPS
169.825 MINES *Inpt to*
164.675
GS *Common Freq*
169.845
169.85 PO *Ch RED Fl Md Ne*
Rpts 169.ØØ
169.875 DCPA FOR GS
169.9Ø FOR GS
169.925 SECSERV *Ch DELTA*
169.95 FOR
17Ø.ØØ AGRI
INEFC *Ch AERO TAC 4*
REC *Clmbia Rvr Bsn Proj*
17Ø.Ø25 USAE TVA
REC *Clmbia Rvr Bsn Proj*
IBP
El Paso TX
17Ø.Ø5 TVA FWS
INEFC *Rpts 169.55*
REC *Gr Coulee Proj*
17Ø.Ø75 TVA REC
17Ø.1Ø REC

170.125 USN *Ships*
PO *Cal Ill Mass NJ*
170.15 TVA
170.175 PO *Col Md*
170.20 GS
170.225 USAE
170.275 USAE AGRI INT
170.30 USAE AGRI
170.325 USAE IBW MINES
170.35 NRG NASA AGRI INT
170.375 MINES GS
REC *Yakima Hydromet*
170.40 NRG NASA
170.425 INEFC *Inpt to 168.075*
170.45 INT
INEFC *(Inpt to 168.10*
170.475 FOR GS
170.50 FOR
170.525 FOR
170.55 GS
FOR *Fire opns*
170.575 FOR
170.60 FOR
REC *Clmbia Basin*
170.625 IBP
Laredo TX
170.65 PRISONS *Ch 3*
170.675 IBP
El Centro CA
Ogdensburg NY
170.70 IBP
Arkwright NY
Cambria NY
Del Rio TX
Mt Lyons CA
Worden Hill NY
170.75 AGRI
170.775 PO *NJ*
170.825 AGRI
170.875 PRISONS *Ch 1*
170.90
170.91
170.925 PRISONS *Ch 2*
Escapes/Riots/Emerg
170.975 INEFC
(Inpt to 168.70)
171.00 NASA AGRI
171.025 EPA
171.05 EPA
FBI
Kansas City MO
171.075 EPA
171.10 EPA
171.125 EPA NPS
171.15 NASA
FBI
Kansas City MO
171.175 EPA GS
PO *NJ*
REC *Yakima Hydromet*
171.20 NRG
171.215 REC GS
171.22 INT
171.235 CG
SECSERV *Ch ZULU (Inpt to 162.685) For AIR FORCE 1*
171.25 CUST
USN *Ships*
171.26 FOR
PO *Col Mass Mo NJ NC Oh Ten*
171.285 WHS
171.315 CG
171.325
171.335 CG
171.35 FBI
Kansas City MO
171.36 CG DOT
171.375
171.385 FOR
PO *In NC Ohio*
171.40 AGRI
171.405 GS
171.41
171.425 FOR
171.45 FOR

171.475 GS *(Inpt to 172.225)*
FOR
171.5Ø FOR
171.525 FOR
171.55 FOR
171.575 FOR
171.6Ø FOR GS
171.625 NPS REC
USN *Ships*
171.65 INT
171.675 GS REC
171.7Ø INT AGRI
171.725 INT
IBP
Miami FL
171.75 REC FWS
NPS- *Inpt to 172.45*
171.775 INT
REC *Cntrl Vly Proj*
171.8Ø COMM
171.825 EPA
171.85 EPA
171.875 EPA
171.9Ø EPA
171.925 EPA
GS*(Rpts 169.475)*
171.95 EPA GS
171.975 EPA GS
172.ØØ DEA COMM
USN *Ships*
172.Ø25 TVA
172.Ø5 DEA COMM
FCC *(Inpt to 167.Ø5)*
172.Ø75 AGRI COMM
172.1Ø NOAA
172.125 FAA
172.135 ARMY *MP's*
172.15 FAA
172.175 FAA
172.2Ø DEA FOR
172.225 FOR
GS*(Rpts 171.475)*
172.25 FOR
172.275 FOR
172.285 FOR
172.3Ø FOR
PO *Col Md Mass NJ NY Va*
172.31 FOR
172.325 FOR
172.35 FOR
172.375 FOR
USN *Atlantic*
172.385 FOR
172.4Ø USED REC IBW
172.425 GS
REC *Centrl Vly Proj*
172.45 FWS BIA
NPS-*Rpts 171.75*
172.475 NPS GS FWS IBW
172.5Ø INT NRG
BVP-*(Rpts 168.3Ø)*
172.525 IBP-*Fla* GS
REC *Minidoka Proj*
BVP-*(Rpts 168.325)*
172.55 NPS
172.575 NPS GS
172.6Ø FOR *Aero*
172.625 NPS BIA REC
172.65 REC
172.675 NPS INT
172.7Ø DOT INT
172.725 TVA
USN *Ships*
172.775 NPS REC INT
172.8Ø FCC *Inpt to 167.Ø5*
172.825 FAA
FBI *Ft Bliss TX*
172.875 FAA NPS USED
172.9Ø FAA
172.925 FAA
172.95 FAA
172.975 FAA
173.ØØ NRG
173.Ø25 FOR MIL
173.Ø5 USAF TVA

173.1Ø NSF
173.125 USN *Ships*
173.175 IBW
173.185 DCPA
173.195 GS
173.275
173.34
173.375
173.41 ARMY USAF
Fire/Crash Trucks
173.435 ARMY USAF
Fire/Crash Trucks
FBI *Wrt-Pat AFB OH*
173.46 ARMY USAF
173.475
173.485 ARMY USAF
FBI *Ft Bliss TX*
173.5Ø NOAA
USN *Pacific*
173.51 ARMY USAF
173.535 ARMY USAF
Civil Engineering
FBI *Wrt-Pat AFB OH*
173.56 NASA
ARMY- USAF *Fire/Medic*
173.585 ARMY USAF
173.6Ø
173.61 MIL NASA INT
PO *Cal NY*
173.625 REC
173.635 PO *Ca NY*
173.66 NASA
USAF *Fire/Crash/Medic*
173.685 USAF NASA
PO *NY*
173.71 NRG
173.735 PO *Oh*
173.76 AGRI INT BIA
173.785 AGRI
PO *Ariz*
USAF *Fire/Crash/Medic*
173.81 USAF
173.835 MIL
173.86 INT
173.885
173.9Ø
173.91 ARMY
173.96 IBW
173.975 IBW
173.985 USED
225.Ø MIL
225.4 USAF
225.8 USAF
226.6 NG *Ky*
226.7 NG *SD*
228.4 USAF
229.3 ARMY
23Ø.5 ARMY
231.9 ARMY

DELICIOUS
NEW JERSEY NATIONAL GUARD, NEWARK AIRPORT, NEWARK, N.J.
your reception of radio station DELICIOUS
on ________, 1949.
, Antenna:

WTEI
HYDROGRAPHER
This will confirm that you heard station WTEI on 4160kc. on Dec 18, 1948
Transmitter power: 50 watts
Antenna: 80 feet, Remarks:

232.9 ARMY
235.Ø USAF USN
235.1 USAF
235.25 USAF
236.1 USAF
236.4 USN *Pacific*
236.6 MIL *Control Twrs*
(also used by RCAF)
237.9 CG
238.2 ANG *Me*
238.75 USAF
239.4 NRG
239.8 USAF *Weather*
24Ø.Ø NASA
24Ø.1 USAF
24Ø.2 NASA NRG
24Ø.4 NASA
24Ø.6 CG USN NASA
24Ø.8 NASA
241.Ø NG ARMY
(Popularly used by Army Aviation & NG in many states.)
241.2 NASA
241.4 NASA
241.6 NASA
241.8 NASA NG-*Mo*
242.Ø NASA
242.4 NG *Nebr*
242.6 NG *Texas*
243.Ø *Distress/Emerg*
244.1 NG *RI*
244.3 USN *Atlantic*
246.Ø ARMY
246.3 USN *Atlantic*
246.8 USN *Atlantic*
248.6 USN *Atlantic*
25Ø.7 USN *Atlantic*
252.1 USAFR
252.4 USN *Atlantic*
252.8 USAF
252.9 USAF
253.2 USN *Pacific*
254.6 USAF
255.4 FAA *Flite Service*
255.8 NG *Cal*
256.2 NASA
USN *Atlantic*
257.2 USAF
257.8 MIL *Air Tfc Cntrl*
257.9 USAF
259.7 *Space Shuttle*
259.8 USAF
26Ø.2 USAF
26Ø.4 ANG *Iowa*
261.2 USAF
261.9 ANG *NY*
264.2 USN
264.6 ANG *Miss*
264.9 USAF
265.5 USAF
266.7 USNAR
267.8 ANG *Mich*
27Ø.1 USAF
27Ø.6 USN
275.1 USN CG
275.8 USAF
276.1 USAF
276.5 USAF
276.9 USAF
277.Ø USN
277.8 USN CG
279.8 USAF
28Ø.5 TAC
282.2 USMC
282.8 CG *Search/Rescue*
283.7 TAC
283.8 ANG *WV*
283.9 USAF
285.Ø USN
286.2 NG *Ohio*
286.5 ANG *Kansas*
286.9 USAF
287.2 USAF
287.3 ANG *Ala Ill NH*
287.5 ANG *NY*
288.2 USAF
288.9 USAF

289.4 USAF
289.5 USAF
289.7 USAF
292.1 TAC
292.2 TAC
ANG *NC*
292.3 ANG *Miss*
292.95 USN *Atlantic*
293.Ø USAF
293.Ø5 USN
293.15 USN *Pacific*
294.2 USAF
294.65 USN
294.75 USN *Atlantic*
294.8 USAF
294.85 USN *Pacific*
295.3 USAF
295.8 USAF
296.2 USAF
296.35 USN *Pacific*
296.45 USN *Atlantic*
296.55 USN *Pacific*
296.8 *Space Shuttle*
297.Ø ANG *Ga WV*
297.1 ANG *Ga*
297.3 USAF
297.95 USN
298.Ø5 USN *Atlantic*
298.15 USN *Pacific*
298.3 ANG *Cal*
299.1 ARMYR
299.45 USN
299.55 USN *Atlantic*
299.65 USN *Pacific*
3Ø1.Ø USN
3O2.7 USAF
3Ø3.Ø ANG *Cal Me Pa Tenn Tex Utah*
3Ø3.4 USN
3Ø4.8 NOAA/USAF *Hurricane Hunters in Gulf Mexico & Caribbean*
3Ø5.4 USAF
3O5.5 USAF
3Ø5.6 TAC
3Ø5.7 USAF
3Ø6.35 USN
3Ø5.45 USN *Atlantic*
3Ø6.55 USN *Pacific*
3Ø7.4 USN *Atlantic*
3Ø7.85 USN
3Ø7.95 USN
3Ø8.Ø5 USN
3Ø9.25 USN
3Ø9.35 USN
3Ø9.45 USN
31Ø.75 USN
31Ø.85 USN
311,Ø SAC *Tech assist freq. Aircraft in need of assistance call "SKY BIRD" which is gen call to any SAC Command Post.*
311.1 USAF
311.3 NG *Oh*
314.2 ANG *Mi Tenn*
314.4 ANG *Neb*
314.5 USAF
316.625 USAF
317.175 USAF
317.275 USAF
317.8 USAF
318.3 USAF
319.4 MAC NG-*Okla*
319.8 USAF
32Ø.Ø USN
321.Ø SAC
322.6 USAF *"Thunderbirds" Aerobatic Team communications*
342.2 USAF
324.4 USAF
326.3 USAF
355.7 USAF
321.7 ARMY
338.5 USAF
339.2 USAF
34Ø.2 USN *Air Tfc Cntrl*

340.6 USAF
340.8 MAC ANG-*NY*
341.6 ANG *Tenn*
342.2 SAC
342.5 USAF *Weather*
343.Ø TAC
344.6 USAF *Weather*
345.8 USN
345.9 USN
347.2 ANG *Md*
347.7 NG *Wisc*
349.4 TAC MAC
ANG *Mo*
349.7 ANG *Conn*
351.2 USAFR ANG-*Wisc*
354.Ø FAA *Air Tfc Cntrl*
354.2 USAF
356.8 USAF
357.9 USAF
358.2 USAF
358.9 USN
359.4 USN
36Ø.2 USN *Air Tfc Cntrl*
36Ø.35 USN
361.4 ANG *NY*
363.8 MIL *Radar Apprch*
363.9 USAF
364.Ø USAFR
364.2 NORAD
361.8 ARMY
368.6 USAF
369.1 USAF
369.2 USAF
37Ø.4 USAF
372.2 USAF *Dispatchers*
375.2 USAF *Weather*
375.7 USAF
376.2 TAC
378.1 USAF
378.2 USAF
378.9 USAF
379.5 ANG *NY*
38Ø.55 USN
381.3 TAC *Tech assist freq. Aircraft in need of assistance call "GOLDEN," which is gen call for all TAC Command Posts.*
381.7 CG
381.8 CG
382.5 TAC
383.9 CG
384.8 ARMY
385.25 USN
387.9 USAFR
387.4 USN
388.Ø *Supposedly a resonant freq. of human nervous system & cause for so-called "death ray" experiments a few years ago.*
391.8 USAF
393.855 USN *Atlantic*
394.6 USAF
394.8
396.2 USAF
396.9 ANG *Wash Wisc*
398.5 USAF
4Ø5.ØØ *Monitored for Radio Astronomy signals at*
Arecibo PR (NSF)
Green Bank WV (NSF)
4Ø6.ØØ USAF *Emerg freq-- a monitor reports hearing AIR FORCE 1 this freq.*
4Ø6.Ø25 EPA
4Ø6.Ø25 EPA
4Ø6.Ø5 EPA
4Ø6.Ø75 EPA
4Ø6.125 EPA REC
4Ø6.2Ø FBI
San Francisco CA Ch BLUE 1
4Ø6.225 NRG ARMY
PO *Cal Tex*
4Ø6.25 FBI
San Francisco CA Ch BLUE 2

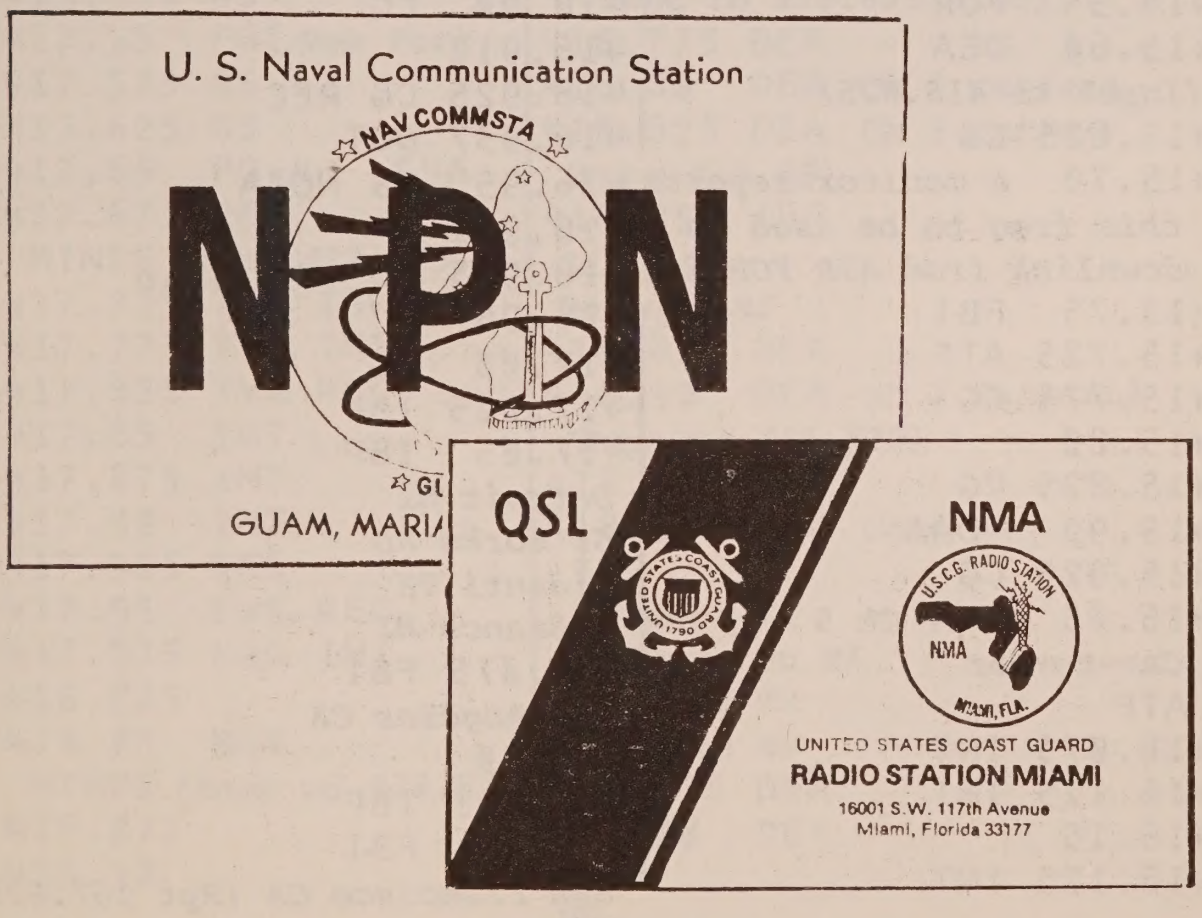
406.275 FBI
San Francisco CA Ch BLUE 3
406.30 FBI
San Francisco CA Ch BLUE 4 and GOLD 4
406.325 FBI
San Francisco CA Ch BLUE 5
PO *all areas*
406.35 FBI
E Bay area CA Ch GOLD 1
406.375 FBI
Marin Cnty CA Ch GOLD 2
PO *all areas* INT
406.40 FBI
Bay area CA Ch GOLD 3
Car/car & tactical
PO *all areas*
406.425
406.45 FBI
San Francisco CA Ch GOLD
406.475 INT
REC *Gr Coulee Proj*
406.55 NPS REC
MINES-*(Rpts 411.675)*
406.562 CG
406.575 REC
406.75 NRG
406.80 CG REC
406.875
406.937 USAE
406.975 CG
407.025 REC *Yakima Prj*
407.062 FAA
407.125 CG
407.175 USAF FAA
407.20 STATE
407.225 ARMY
407.25 ARMY *MP's*
(Input to 409.125)
407.275 ARMY
407.30 ARMY
407.325 ARMY
407.35 MIL
407.375 USAF ARMY
407.40 USAF ARMY
407.425 ARMY *MP's*
407.45 MIL
407.475 MIL
407.50 USAF
407.525 MIL
407.575 ARMY USAF
407.60 CIA STATE
407.625 GS CG
407.775 CG
407.80 CIA
407.825 ATF
407.85 ATF
407.875 ATF
407.975 CG
408.025 PO-*Ill* NRG
408.05 PO *Ill*
408.075 INT
408.10 STATE
408.135 ARMY *MP's*
408.15 NASA
408.175
408.20 IBP
408.225 IBP
408.25 IBP
Baudette MI
Detroit MI
Stephen MN
408.275 IBP
408.30 IBP
408.325 IBP
408.35 IBP
Capitol Hill ME
Greenbush MN
Hudson MI
Milan MI
Narrin Lk MI
408.375 IBP
408.40 IBP
408.425 REC
408.475 INT
408.525 REC

408.55
MINES *(Inpt to 415.15)*
BVP *(Inpt to 411.85)*
408.575 NPS REC
408.60 CIA STATE
408.625 REC
408.675 INT
408.725 REC
408.75 INT
408.775 INT
408.80 NASA
408.825 FAA
408.85 FBI
408.875 FBI
408.90 FBI
408.925 FBI
408.95 FBI NRG
408.975 FBI
409.00 FBI
San Francisco CA BLUE 1
(Input to 406.20)
CG
409.025 FBI
409.05 FBI
San Francisco CA Ch BLUE 2
(Inpt to 406.25)
409.075 REC
409.10 FBI
San Francisco CA Ch BLUE 3
(Inpt to 406.275)
PO *Fla Mich*
409.125 ARMY *MP's*
(Rpts 407.25)
409.15 FBI
San Francisco CA Ch BLUE 4
& GOLD 4 (Input to 406.30)
409.175 FBI
E Bay area CA Ch GOLD 4
(Inpt to 406.30)
PO *All areas*
409.20 FBI
Marin Cnty CA Ch GOLD 2
(Inpt to 406.375)
NRG
409.225 PO *Tex*
409.25 FBI
San Francisco CA Ch GOLD 3
(Inpt to 406.40)
409.275 PO *All areas*
409.30 NRG
409.35 PO *Tex*
409.375 VA
409.40 VA
409.412 CG
409.45 PO *All areas*
409.525 REC PO-*All areas*
409.625 STATE
407.675 INT
409.695
409.70 STATE
409.75 INT
409.825 CG NSF
409.85 ARMY INT
409.90 REC PO-*Fla Mich*
410.00 NRG PO-*Ill*
410.025
410.075 NOAA
410.10 NOAA
410.15 NOAA
410.20 REC PO-*Ariz Cal Fl*
Ill Iowa Mo Okla Tex
FOR
410.25 FAA USAF
410.30 FAA
410.325 PO *All areas*
410.35 NRG
410.575 NOAA
410.625 FOR
410.70 NOAA
410.75 EPA
410.775 EPA
410.80 NRG
411.00 USAF
411.025 FBI
411.075 FBI
St Thomas VI
411.10
411.125

411.15 CIA NRG
411.175
411.2Ø NRG
411.225 FOR
411.25 FOR
411.275 FOR
411.3Ø FOR
411.325 FOR
411.35
411.375 FOR
411.4Ø FOR
411.425 FOR
411.45 FOR
411.5Ø FOR
411.525 FOR
411.575 FOR
411.6Ø NRG
411.625 GS REC
411.675 MINT GS
MINES *(Inpt of 4Ø6.55)*
411.7Ø REC TVA
411.725 INT
411.75 INT
411.775 INT
411.825 REC TVA
411.85 BVP *(Rpts 4Ø8.55)*
411.875 TVA REC
411.9Ø INT
411.925 INT
412.ØØ REC NASA
412.Ø25 REC *Rio Grnde Pwr*
412.Ø5 NASA
412.Ø75 GS
412.1Ø INT
412.125 IBW GS
412.15 INT
412.175 IBW
412.2Ø IBW
412.225 REC
412.25 REC
412.3Ø REC
412.325
412.35 REC
412.375 TVA REC
MINES *(Inpt to 417.675)*
412.4Ø FOR
412.425 FBI
Lansing MI
Loneman Mtn MI
Quitman Pk TX
San Antonio TX
Worden Hill NY
412.45 FBI
Adario OH
Phoenix AZ
San Francisco CA
Whitetanks AZ
Wyoming NM
412.475 FBI
Albuquerque NM
Helderberg NY
412.5Ø FBI
Anchorage AK
Boston MA
Butte MT
Honolulu MI
Miami FL
Mobile AL
Phoenix AZ
San Diego CA
Puerto Rico
412.55 FBI
Mt del Estado PR
Northville MI
412.575 FBI
Cloudcroft NM
San Francisco CA
San Antonio TX
Mt Franklin TX
Whitetanks AZ
412.6Ø FOR
412.625 TVA
412.675 TVA
412.725 TVA
412.75 NRG
412.775 TVA REC

412.8Ø FOR
412.825 ARMY USAF
412.837 USAE
412.875 MIL GS
412.9Ø ARMY USAF
412.925 MIL GS
412.95 GS ARMY USAF
USN-*Atlantic*
412.975 MIL
413.ØØ MIL
413.Ø25 MIL
413.Ø5 MIL
413.Ø75 MIL
413.1Ø MIL
413.125 MIL
413.15 MIL
413.175 MIL
413.2Ø MIL
413.237 USAE REC
413.25 MIL
413.275 USAF
413.3Ø MIL
413.325 MIL
413.35 MIL
413.375 MIL
413.425 ARMY USAF
AP's & MP's
FBI
Ft Bliss TX
413.45 MIL
413.525 MIL
413.55 FBI
Los Angeles CA
413.562 ARMY
413.575 MIL
413.6Ø NRG
413.625 IBP
413.65 IBP
Gr Marais MN
Loman MN
Milton ND
413.675 IBP
413.7Ø IBP
413.725 IBP
413.75 IBP
Greenbush MN
Milan MN
413.775 IBP
413.8Ø NRG
413.825 ARMY
413.875 GSA
413.9Ø FOR
413.925
413.95 GSA
413.975 FBI
414.ØØ FBI
San Francisco CA
(Rpts BLUE 4)
414.Ø25 FBI
Ash Ridge WI
El Yunque Pk PR
414.Ø5 FBI
San Francisco CA
414.Ø75 FBI
Broadview OH
Helderberg NY
414.1Ø FBI
Cotulla TX
414.125 FBI
Helderberg NY
Howell MI
Mt Laguna CA
414.15 FBI
414.175 FBI
414.2Ø FBI
414.225 FBI
414.25 FBI
Paris OH
414.275 FBI
Capillo Pk NM
414.3Ø FBI
Adario OH
414.325 VA
414.35 FBI
Millington MI
414.375 FBI
El Paso TX

San Francisco CA
(Rpts 167.26/167.335)
Seattle WA
(Inpt of 419.525)
414.4Ø FBI
414.425 FBI
Little Vly Tp NY
414.45 FBI
Mingus Mtn AZ
414.475 FBI
414.5Ø FBI
Bay area CA (Rpts 167.625)
Chelsea MI
Maravillas Mtn PR
414.525 FBI
414.55 FBI
Mt Lemmon AZ
San Francisco CA
414.575 FBI
Howell MI
414.625 NOAA
414.65 INEFC
Logistics Ch 1
414.675
414.7Ø ATF
414.725 PO *All areas*
414.825 INT REC
414.875 INT
414.9Ø
414.925 REC
BVP *(Inpt to 412.25)*
414.95
414.975 MINES *(Input to 419.5Ø)*
415.ØØ ATF
Scientific test balloons reported this freq.
415.Ø25 REC
415.Ø5 PO *all areas*
415.Ø75 TVA BIA
REC *Yakima Project*
Rio Grande Pwr
Cntrl Snake Proj
415.1Ø TREAS



415.125 FAA
REC *Cntrl Vly Proj*
415.15 MINES
(Rpts 4Ø8.55)
415.175 TVA REC
415.2Ø GSA *Fed Prot Service*
415.225 INT
415.25 INT
415.3Ø FOR
415.325 FOR
415.35 FOR
415.375 FOR
415.4Ø INEFC
Logistics Ch 2
415.425 FOR
415.45 FOR
AIR FORCE 1 has been reported as being monitored on this freq.
415.5Ø INEFC
Logistics Ch 3
415.525 FOR
415.55 FOR
415.6Ø DEA
(Input to 418.825)
415.625 CG
415.7Ø *A monitor reports this freq to be used as a downlink from AIR FORCE 1*
415.75 FBI
415.725 ATF
415.775 CG
415.8Ø
415.825 CG
415.9Ø NOAA
415.925 CG
416.Ø5 DEA *Ch 5*
Car-to-car
ATF
416.Ø75 INT
416.125 INT
416.15
416.175 INT
416.2Ø DEA
(Input to 418.625)
416.225 CG REC
416.25 NRG
416.3Ø NRG
416.325 ATF
DEA *Ch 2 Inpt to 418.9Ø*
416.35 NRG
416.375 NOAA
416.425
416.4Ø NRG
416.45 NRG
416.475 REC
416.5Ø NRG
416.55 FAA
416.675 REC
Yakima Hydromet/Proj
416.7Ø USN *Ships*
416.775 PO *Wisc*
(Inpt to 418.3Ø)
416.85 CG
416.86 DOT
416.885
416.9Ø CG
416.912
416.925 CG REC
416.937 DOT
416.95 GS NOAA
416.962
416.975 PO *Ill Minn*
416.987
417.ØØ CG
417.Ø25 IBP
417.Ø5 IBP
Detroit MI
Gr Forks ND
Vidauri TX
W Branch MI
417.Ø75 FBI
Los Angeles CA
417.1Ø
417.125 IBP
417.15 FBI
San Francisco CA (Rpt 167.625)

IBP
Cyr Mtn ME
Bliss MI
Devils Lk MI
Millington MI
Warroad MN
Virgin Islands
417.175 IBP
417.2Ø GSA *Security*
(Inpt to 419.175)
417.225 REC GS
417.25 INT
BVP *(Rpts 414.925)*
417.275 REC
417.3Ø INT
417.325 INT
417.35 INT TVA
417.375 INT
417.4Ø FBI *New York*
417.425 REC
417.45 FBI *New York*
417.475 INT
417.5Ø FBI *New York*
417.525 GS
417.55 FBI *New York*
417.575 GS
417.625 GS
417.65 PO-*Md* GSA
417.675 REC
MINES *(Rpts 412.375)*
417.725 TVA IBW
417.775 TVA INT
417.825 TVA REC
417.85 INT
417.875 INT
417.9Ø INT
417.925 REC
417.95 FWS REC
417.975 NRG INT
418.Ø25
418.Ø5 NRG
MINES *(Inpt to 418.575)*
418.Ø75
418.1Ø
418.125
418.15
418.175 ATF
418.2Ø ATF
418.225 ATF
418.25 ATF
418.275 GS *(Inpt to 419.9Ø)*
418.3Ø PO-*Wi Security*
(Input to 416.775)
418.325 GS *(Inpt to 419.925)*
418.35 GS *(Inpt to 419.95)*
418.5Ø REC
418.525 REC
418.575 MINES *(Rpts 418.Ø5)*
418.625 DEA *Ch 1*
(Rpts 416.2Ø & 418.75)
418.65 ATF
418.675 DEA *Ch 4*
Car/car & surveillance
418.7Ø DEA
418.725 DEA
418.75 DEA *Ch 3*
Strike force, car/car
(Inpt to 418.625 also)
418.775 DEA
418.8Ø DEA *Ch 1 car/car*
418.825 DEA *Ch 5 car/car*
(Rpts 415.6Ø)
418.85 IBP
Callo ND
Detroit MI
418.875 DEA
418.9Ø DEA *Ch 2 Surveill*
(Repeats 416.325)
418.925 DEA
418.95 DEA *Ch 6*
IBP
Pledger TX
Millington MI
Riviera TX
Stephen MN
418.975 DEA
419.ØØ DEA

419.Ø25 FAA
419.1Ø ATF
419.125 PO- *Ill Ky* CG
419.175 GSA *Security (Rpts 417.2Ø)*
419.2Ø FBI
419.225 FBI
Phoenix AZ
San Juan PR
San Jose CA
419.25 FBI
Anchorage AK
Detroit MI
El Paso TX
Seattle WA
419.275 FBI
Albany NY
Cleveland OH
San Francisco CA
Squak Mtn WA
419.3Ø FBI
Buffalo NY
Madison WI
419.325 FBI
Miami FL
San Francisco CA
419.35 FBI
Laredo TX
San Diego CA
San Francisco CA
419.375 FBI
San Francisco CA
419.4Ø FBI
Houston TX (Rpts 163.96)
419.425 FBI
Mt Constitution WA
San Francisco CA
419.45 FBI
Jacksonville FL
Smith Hill NY
419.475 FBI
San Francisco CA
419.5Ø FBI
419.525 FBI *(may rpt 414.375 some areas)*
Madison WI
Seattle WA
419.55 FBI
Bloomville OH
419.575 FBI
419.6Ø CG
419.625 GS
419.65 INT
419.675 PROTEC
419.8Ø CG
419.825 INT
419.85 TVA BIA REC
419.875 TVA INT REC *Rio Grande Pwr*
Cntrl Snake Proj
Yakima Proj
419.9Ø GS *(Rpts 418.275)*
419.925 GS *(Rpts 418.325)* MINES
419.95 MINES *(Rpts 414.975)*
419.975 NRG CG
42Ø.ØØ ARMY
433.92 *Scientific/Medical experiment freq. currently being used for experimental cancer treatments, amongst other uses.*
454.ØØ EPA-OIL
456.Ø3 USN
456.8Ø MINES *(Undergrnd operations)*
459.ØØ EPA-OIL
467.95 FBI *Jacksnvl FL*
6Ø8 TO 614 MHZ RADIO ASTRONOMY BAND
61Ø.Ø Delaware OH
Green Bank WV
Hamilton MA
61Ø.5 Danville IL
Boulder CO
611.Ø Arecibo PR
Big Pine CA
Hamilton MA

FAA ARTCC MILITARY FREQUENCIES

The FAA stands watch on a number of military frequencies for the purposes of communicating with aircraft flying over the U.S. Ground stations identify by the location of the transmitter control point followed by the word "Center," such as "Chicago Center," etc. Each of these *centers* uses many remote controlled transmitters established at varying distances and directions from the central control point. I have liisted each of these *centers* along with the locations and frequencies of each remote controlled transmitting facility.

ALBUQUERQUE NM 307.2 363.2
ALAMOGORDO 353.6
AMARILLO 261.5 351.7 381.6
ANIMAS 281.5 351.8
CARLSBAD 363.1
CHILDS PEAK 288.3 307.3 350.2 371.9
CLINES CORS 269.4 284.6
EL PASO 270.3 278.3 285.5 363.1
GLOBE 260.6 269.3 290.3 306.2 308.6 338.3 350.2 353.9
HUMBOLDT MTN 285.4 289.1 298.9 327.1
MESA RICA 363.2
MT DORA 351.7
RATON 319.9 353.8
ROSWELL 343.6 353.6 385.4
SANDIA MTN 269.4
SELIGMAN 263.1 370.9 370.95
T OR C 338.2
TUCSON 281.5 351.8
TUCUMCARI 251.1 279.6 319.2
WEST MESA 269.4 284.6
WINSLOW 263.1 285.4 370.9 370.95
ZUNI 287.9 307.2 321.3 343.9

ATLANTA GA 264.2 273.6 279.2 306.2 323.1 327.8 343.9
ALBEMARLE 251.1
ATHENS 256.9 306.9
AUSTELL 269.3 287.9 307.9 317.7 360.6
BIRMINGHAM 261.5 316.1 380.2
BLACK JACK MTN 370.9
CHATTANOOGA 284.6 353.8 363.1 380.3
COLUMBUS 353.9 357.6 377.1
CROSSVILLE 254.3
GADSDEN 353.7
GREENSBORO 343.8 360.7 379.2
GREENVILLE 236.5 269.1
HICKORY 263.0 290.2 307.8
MACON 322.3 348.7 360.7
MONROEVILLE 267.9
MONTGOMERY 280.1 308.6 319.1 351.9
NEWPORT 236.7 257.9 269.5
OWING 322.4 327.0
PINE LEVEL 290.5 335.6 379.9
TRI CITY 319.9 335.6 338.3

BOSTON MA
AUGUSTA 285.4
BARNSTABLE 269.3 290.3 307.3 321.3 351.9 370.9 381.4
BUCKS HRBR 288.1
CAMBRIDGE 360.6
CONCORD 269.5
E BURKE 371.9
GARDNER 338.2
HOULTON 269.2 319.1
LK GEORGE 291.6 327.0 348.7 354.1 371.9
LYON MTN 282.2 380.3
MELROSE 261.5 281.5 353.7 393.1
MT EQUINOX 348.7
PAWLING 379.1
ROCKDALE 351.7
ROME 269.0 321.3 323.0 377.1 380.3
ST ALBANS 269.6 319.1 321.3 346.4
S ACTON 288.3 307.0 322.4
UTICA 357.6
WOODSTOCK 284.7 307.9 360.6 379.1 398.9

CHICAGO IL
AURORA 363.2 381.4
BLOOMINGTON 256.9
BRADFORD 291.6 353.5
BURLINGTON 316.1
CEDAR RAPIDS 261.5
CENTRAL WISC 317.7
CHICAGO HTS 272.7
DANVILLE 397.9
DELLS 307.1
DES MOINES 319.8
DES PLAINES 298.9 317.4 360.8
DOWNERS GRV 338.3 363.2
DUBUQUE 281.4 285.5 343.6 351.8
FT WAYNE 269.1 362.3
GARY 285.6 323.2 385.5 387.1
GOSHEN 263.1 269.1 317.6 343.7 357.6
GREEN BAY 370.9
HAMPSHIRE 307.2 348.7 380.3 381.4
GR RAPIDS 269.6 285.4 287.9 319.1
HORICON 263.0 306.3 327.8 343.9
JOLIET 371.9
JONES 254.3 353.6 379.1
MADISON 269.4
MILFORD 284.7 353.8 377.2
MILWAUKEE 291.7 323.1 360.6 364.8
MOLINE 351.7
ROCKFORD 239.3 379.3 381.6
SO BEND 273.6
WASHINGTON 306.9 354.1 385.6
WHITE CLOUD 299.2

CLEVELAND OH
ALGONAC 269.2 354.0 380.6
BELMONT 277.8 291.6 323.1 379.1
BLUE KNOB 299.2 307.1 327.1 353.8
BRECKSVILLE 348.7
CARLETON 288.3 317.5 319.9 327.0
DETROIT 335.6 354.1 369.9
DUNKIRK 263.1
FINDLAY 269.3 322.4
FLINT 277.4
HOLLAND 353.7 369.9 397.9
LITCHFIELD 343.8 360.7
MANSFIELD 317.7 350.2 369.9
MOON TWP 236.1 319.2 369.9 385.5
MORGANTOWN 239.3
MT HOPE 261.5 307.2
PORTVIEW 281.5
SAGINAW 290.4 307.8 351.9
SANDUSKY 269.5 363.0
WARREN 267.3 306.9 316.1 317.4 323.2 338.3
WATERFORD 323.2
WATERVILLE 379.2
WAYLAND 284.6 335.5 381.6

DENVER CO 272.7 282.2 284.7 285.5 290.2 296.7 306.9 322.3 357.6
AKRON 319.2
ALAMOSA 343.7
ASPEN 327.8
CASPER 239.0 322.5
CHEYENNE 257.6 281.5 284.7 350.3
COLBY 306.3 353.7
CRAWFORD 338.2 354.0
EASTONVILLE 323.1
FARMINGTON 290.4 319.1 343.7
GALLUP 319.1
GOODLAND 306.3 353.7
GR ISLAND 269.6
GR JUNCTION 269.1
GRAND MESA 269.1 307.9 319.9 327.0
GUNNISON 307.9 319.0
HANKSVILLE 307.9
HAYDEN 257.6 327.8
HAYES CTR 335.6
LA JUNTA 317.5 348.7
LUSK 239.0
MEDICINE BOW 281.5
NATOMA 353.7
N PLATTE 284.7 306.3 335.6 343.8 354.0 381.4
OGALLALA 296.6 381.4
O'NEILL 269.6 354.0
PUEBLO 317.5 307.1 335.5
RAPID CITY 322.5 338.2
SUNDANCE 239.0
WINSLOW 290.4 319.1 343.7

FT WORTH TX 317.4 353.7 351.9 360.6 364.8 377.1
ABILENE 269.4 317.7 323.0
ARDMORE 322.4
BIG SPRING 350.2
BLUE RIDGE 254.3 377.1 397.9
CARLSBAD 385.6
CLINTON-SHERM 363.1
EL DORADO 269.1
FARMERSVILLE 322.5
KELLER 364.8 351.9
LOMETA 372.0
LUBBOCK 327.1 362.3
MARSHALL 269.2 327.8
MC ALESTER 278.3 288.3 387.0
MIDLAND 269.0 284.7 385.6
OKLA CITY 291.7 298.9
PADUCAH 319.8
PLAINVIEW 316.1
SAN ANGELO 360.8
SCURRY 282.3 287.9
SHREVEPORT 285.5 307.9
TEXARKANA 284.6 381.4
TULSA 354.1 364.8 371.9
WACO 269.5
WICHITA FLS 278.5 285.6 319.8 354.0 360.7

HOUSTON TX 263.1 269.0 269.5 281.5 306.3 307.2 321.3 385.5

ALEXANDRIA 317.5 343.9
AUSTIN 317.5 343.9
BEAUMONT 351.8
BROWNSVILLE 291.6
CLEAR LK CY 306.3
COLLEGE STA 307.8 338.3
DAISETTA 354.1
GR ISLE 269.5 360.8
HATTIESBURG 281.5 285.6
KINGSVILLE 281.5 285.6
LACOMBE 323.2 381.5
LAFAYETTE 263.1 327.1 380.2
LK CHARLES 353.9 381.6
LAREDO 307.2 323.1
LOMETA 288.5 343.9 372.0
LUFKIN 269.6 343.6
MOBILE 279.6 291.6 322.4
NATCHEZ 291.7
NEW ORLEANS 380.2 385.5
PALACIOS 306.9 350.3
ROCKPORT 281.9 319.8 353.6 353.6 360.7
ROCKSPRINGS 327.0 380.2
SAN ANTONIO 285.4 291.7 321.3 343.7 278.3
SEALEY 279.6

INDIANAPOLIS IN 290.3 319.8 321.3 385.4
BLACKFORD 272.7
BROOKVILLE 269.0 282.3 307.9 351.8
CHARLESTON 269.6 307.3 381.6 385.6
CINCINNATI 281.4 379.9
EVANSVILLE 363.0
HENRYVILLE 269.4 278.5 322.5 352.0
LIVINGSTON TENN 323.2
LONDON KY 278.3 317.4
LONDON OH 290.5 346.3 380.2
MERWYN 321.3
MUNCIE 251.1
NEW HOPE 372.0
PARKERSBURG 398.9
PORTSMOUTH 288.1 290.4 291.7 363.2
ROSSVILLE 319.2 378.8
TERRE HAUTE 307.1
WEST POINT 270.3
WINCHESTER 285.4 387.0
ZANESVILLE 343.6 353.5 370.7

JACKSONVILLE FL 269.2 317.4 350.3
ALBANY 317.6 359.0
ALMA 282.3 290.4
AUGUSTA 307.1 323.0
BRUNSWICK 277.4 319.3
CHARLESTON 269.0 269.6 351.7 353.5 362.3 364.8 379.1
COLUMBIA 298.9 319.2 335.5
CRESTVIEW 251.1 338.3 350.2 371.9
DAYTONA BCH 263.0
DOTHAN 288.3 353.5
FLORENCE 306.3 321.4
GAINESVILLE 352.0 385.6
MILLEN 352.4 363.2
MYRTLE BCH 317.4 343.6 381.4
PANAMA CY 346.4 381.4
PENSACOLA 374.8
ST AUGUSTINE 236.7 288.1 317.5 350.3
SAVANNAH 281.5 322.5 346.3
TALLAHASSEE 278.3 281.4 291.7 307.2 348.3 360.8 363.0
VALDOSTA 281.4 291.7 348.3 363.0 379.2

KANSAS CITY MO 352.0
ANTHONY 257.0 263.1 273.6 353.9 360.8
BLUE SPGS 285.6 362.3 381.5
COLUMBIA 279.6 299.2 350.2
DECATUR 281.5 335.6
EFFINGHAM 290.4 323.0 346.4
EMPORIA 269.2 285.4 323.2
FARMINGTON 291.7 307.8 319.0
GAGE 263.1 379.2
GARDEN CY 269.4 281.4 387.1
HUTCHINSON 269.5 317.4 360.0
JOPLIN 343.9
KIRKSVILLE 269.3 290.7 370.9
MARION 269.5
MT VERNON 317.7
NATOMA 307.8 322.4
PONCA CITY 317.6 380.2
QUINCY 319.9
RICHLAND 317.5 353.7
ST CHARLES 269.6 323.1 327.1
ST JOSEPH 251.1
ST LOUIS 351.9 380.2
SALINA 363.2
SPRINGFLD 269.4 277.4 290.5
STILLWELL 327.0
TOPEKA 290.2 343.7 363.0 369.9
VANDALIA 338.2
WICHITA 287.0

LOS ANGELES CA 257.9 269.5 284.7 285.5 285.6 291.7 307.8 322.4 327.1 338.3 343.7 348.7 350.3 351.7 354.1
BAKERSFIELD 263.0 306.2 317.7 372.0
BALDWIN HLS 277.4 322.4 351.7
BARSTOW 279.6 284.7 290.2 307.9 317.4 351.9 369.9
BLYTHE 278.5 307.8
BORON 272.7
CEDAR CY 299.2 306.3 343.6 346.3 369.9
JULIAN 261.5 276.3 277.4 282.3 285.6 291.7 312.3 326.7 346.4 369.9
NELSON 307.9 319.2 343.6 369.9
ONTARIO 346.4
PAHRUMP 272.7 377.1
RIVERSIDE 290.2
SADDLE PEAK 307.1 350.3 351.8 369.9
SAN LUIS OBSPO 269.5 327.8
STA BARBARA 269.5 327.1 338.3 343.7
SELIGMAN 282.3 319.2 323.2
TONOPAH 377.1
WILSON CRK 377.2
YUMA 274.6 278.1 278.5

MEMPHIS TN 239.3 306.9 322.3 343.8
BRINKLEY 281.4 360.8
COLUMBUS 269.4 363.2 387.1
FAYETTEVILLE 269.0
GRAHAM 285.5 296.7 381.4
GREENVILLE 282.2 290.4 335.5
HUNTSVILLE 307.0
JACKSON 285.4 380.3
LOUISVILLE 282.1 320.4
MC KELLAR 317.4 354.0
MERIDIAN 263.0 285.2 299.6 323.0 363.2 377.2
NASHVILLE 306.3 307.2 317.6 353.5
PINE BLUFF 269.3 319.8 348.7
RUSSELLVILLE 348.7
S FULTON 269.2 379.2 350.3
TUPELO 252.7 260.6
WALNUT RIDGE 290.2

MIAMI FL 263.1 269.0 270.3 281.5 285.5 287.9 306.9 307.8 307.9 319.1 322.5 323.0 323.2 327.0 335.5 343.7 363.2 381.6
AVON PK 349.0 256.7
ELEUTHERA I 273.6 298.9
FT MYERS 257.7 322.5
GR BAHAMA I 282.2
GR TURK I 307.2
KEY WEST 281.4 290.5 306.9
MELBOURNE 261.5 269.3 307.8 348.7
NASSAU 307.9
ORLANDO 285.5 296.7 307.3 343.7 380.3 388.0
PAHOKEE 291.6 299.2
SARASOTA 269.5 363.1 377.1 381.6
TAMPA 323.2 335.5 343.9 377.2
VERO BCH 319.0 370.9 398.9
W PALM BCH 263.1 290.2 353.6

MINNEAPOLIS MN 319.2 323.1 353.7
ABERDEEN 371.9
ALEXANDRIA 269.2 319.9
ALPENA 279.6
BEMIDJI 251.1
BRAINERD 239.0
CLARK 306.2 323.0
DARWIN 323.1
DES MOINES 288.1 343.8 372.0
DICKINSON 263.0 321.3 323.2
DULUTH 284.6 290.5 321.3
EAU CLAIRE 335.6 353.9
FAIRMONT 257.7
FARGO 278.3
FARMINGTON 307.9 352.0
FT DODGE 288.3
GR FORKS 269.65 307.0 321.3
GR ISLAND 287.9 307.2
HOUGHTON 269.0 321.3 379.1
INT'L FALLS 377.1
IRON MTN 387.0
JAMESTOWN 270.3 281.5
LA CROSSE 321.3 363.0
MARYSVILLE 282.3 317.7
MASON CY 263.1 380.2
MINOT 279.6 319.1
OMAHA 290.4 321.3 346.3
O'NEILL 385.5
PELLSTON 321.3 323.0 327.1
PIERRE 228.5 269.1 317.5
REDWOOD FLS 269.5 290.2 321.3
RHINELANDER 307.5
SAGINAW 282.2
SIOUX CY 269.0 363.1 385.4
SIOUX FLS 291.7 317.4
TRAVERSE CY 398.9

NEW YORK NY
BIG FLAT 322.4 343.9
CALVERTON 269.4
DOUGLASTON 285.5 290.5
ELK MTN 290.4 350.3 363.2 380.2
FLINT HILL 278.3 290.2 307.8
JOLIET 285.6 306.2
KINGSTON 256.7
MATAWAN 270.3 278.5 282.3 353.5
MILLVILLE 254.3 281.4 317.5 327.8 387.1
NORTH MTN 269.1 273.6 319.9
PHILLIPSBRG 272.7 298.9
SAYRE 352.0 372.0
SAYVILLE 319.2 346.3 385.6
SHELTON 269.2 306.3 317.7 343.8
SHIP BOTTOM 335.6 362.3 381.6
WILDWOOD 354.0

OAKLAND CA
ANGELS CAMP 284.6 290.4 296.7 307.8 319.9
FALLON 269.3 285.5 296.7
FERNDALE 284.7 290.3 319.2
FRESNO 281.5 285.4 296.7 319.1 343.8 353.8 357.6
MINA 291.7 319.8

MTN VIEW 263.1 335.6 343.6 357.6
MT TAMALPAIS 281.4 323.Ø 353.5
PRIEST 29Ø.5 3Ø7.Ø 319.1 343.8
RED BLUFF 269.1 281.4 29Ø.3 3Ø6.9
RENO 269.3 285.5
SACRAMENTO 316.1
TONOPAH 291.7 319.8

SALT LAKE CY UT
ASHTON 323.Ø 338.3
BAKER 36Ø.6
BATTLE MTN 269.Ø 352.Ø
BIG PINEY 323.Ø
BILLINGS 343.7 385.6
BLACKFOOT 323.Ø 364.8
BOISE 272.7
BURLEY 263.1
BUTTE 317.6 338.3
CASCADE 29Ø.5
CEDAR CY 354.Ø
DELLE 257.7 263.1 269.2
DELTA 257.7 354.Ø 36Ø.8
ELKO 269.Ø 352.Ø 364.8
EMMETT 29Ø.5 3Ø7.Ø 364.8
FRANCIS PEAK 257.7 263.1 317.7 364.8
GLASGOW 269.4
GOODING 3Ø7.Ø 322.4
GR FALLS 285.4 317.6
JACKSON 323.Ø
LAKESIDE 285.4 317.6
LOVELL 385.6
MEDICINE BOW 291.6 3Ø6.2
MILES CY 269.4
MISSOULA 317.6
MYTON 269.2
ROCK SPRGS 291.6 3Ø6.2
SHERIDAN 385.6
SUNNYSIDE 257.7 363.1
THERMOPOLIS 269.6 364.8
TONOPAH 322.5
WATERFORD CY 269.4
WILSON CRK 36Ø.8 397.9

SEATTLE WA 3Ø6.2 343.6
BEACON HILL 273.6
COTTONWOOD 269.2 281.4
FERNDALE 3Ø6.3
FT LAWTON 3Ø6.9
HORTON 239.Ø 321.3
KENT 3Ø7.8
KLAMATH FLS 351.7
LAKEVIEW 321.3 327.1 351.7
LARCH MTN 269.Ø 343.6
MEDFORD 3Ø6.3 36Ø.7
NEAH BAY 319.2
PENDLETON 269.1 281.4
REDMOND 269.5 288.1
SCAPPOOSE 288.1 3Ø7.1 317.6
SPOKANE 269.2 321.3 322.5
THE DALLES 261.5
WHIDBEY I 27Ø.3 319.2
YAKIMA 291.6 273.6 322.5

WASHINGTON DC 272.7 279.6 284.7 285.5 323.Ø 352.Ø 377.1 38Ø.2
BUCKS ELBOW 263.1 319.Ø 346.4 38Ø.3
BUENA VSTA 353.9 371.9
CLINTON 269.3 351.8 363.Ø
CLINTON NC/SAMPSON 288.3
DANSROCK 257.7 287.9
DUNN LORING 285.4 317.6 327.Ø 348.7
ELKINS 257.7
FALLS CHURCH 285.4 319.8 322.5 348.7
FAYETTEVL 379.9
GREEN BAY 269.4 317.7 351.9
HAGERSTOWN 29Ø.3
NEW BERN 272.7
NORFOLK 279.6 3Ø6.9 377.1
PATUX RVR 277.4
RALEIGH 29Ø.5 352.Ø
ROCKY MT 284.7 38Ø.2
SOMERVILLE 282.2 319.1
S BOSTON 3Ø7.Ø
WESTMINSTER 385.4
WHALEYVILLE 323.Ø 354.1 377.2
WILMINGTON 285.5

ARTIFICIAL SATELLITES

In this section, I've listed those satellites which were in orbit at press time and which are operating between 25 and 470 MHz, or which operated there when last heard from. No attempt has been made to include any microwave frequencies which may be used with these satellites, or information on any satellites using only microwave frequencies. Note that although these satellites are still in orbit, some of them may no longer be transmitting because of electronic malfunction, physical damage, or because their operation has been terminated by those who launched them.

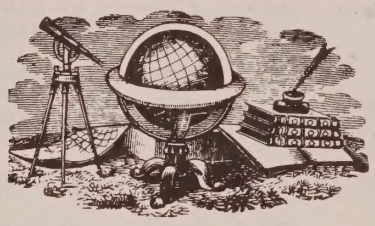
NAME	CAT NUMBER	SOURCE	PERIOD (MIN)	FREQUENCIES T=TRANSMIT R=COMMAND
AIRE SUR ADOUR	UNKN	FR	UNKN	4ØØ.17R 4ØØ.41R 4ØØ.65R 4ØØ.9Ø5R 4Ø1.16R 4Ø1.49R
1963-22A	594	US	99	15Ø.ØØT 4ØØ.ØØT
1963-3ØB	635	US	168	136.89T
1963-49B	7Ø4	US	1Ø7	15Ø.ØØT 4ØØ.ØØT
1963-49C	7Ø5	US	1Ø7	162.ØØT 324.ØØT
1964-26A	8Ø1	US	1Ø3	15Ø.ØØT 4ØØ.ØØT
1964-4ØC	838	US	UNKN	136.771T
1964-83C	959	US	1Ø6	136.563T 162.ØØT 324.ØØT
1964-83D	965	US	1Ø6	15Ø.ØØT 4ØØ.ØØT
1965-58C	146Ø	US	2595	136.768T
ALOUETTE 1	424	CAN	1Ø5	136.Ø78T 136.591T 136.98T
ALOUETTE 2	18Ø4	CAN	12Ø	136.Ø8T 136.41T 136.59T 136.98T
ANNA 1-B	446	US	1Ø8	54.ØØT 162.ØØT 216.ØØT 342.Ø
ATS-1	26Ø8	US	1436	135.55T 135.575T 135.6ØT 135.625T 135.645T 136.47T 137.53T 148.26R 149.22R
ATS-3	3Ø29	US	1436	SAME AS ATS-1 + 412.Ø5T
ATS-5	4Ø68	US	1436	SAME AS ATS-3
ATS-F	UNKN	US	UNKN	39.Ø16T 39.916T 4Ø.Ø16T 4Ø.116T 41.Ø16T 136.23T 137.Ø56T 137.11T 14Ø.Ø56T 141.Ø56T 36Ø.Ø44T 36Ø.144T 36Ø.244T 361.144T 147.ØØR 148.26R 153.ØØR 154.2ØR
CAS-A/EOLE-1	5435	FR	1Ø1	136.35T 464.486T 148.25R 4Ø1.718R
COPERNICUS OAO-C	6153	US	1ØØ	136.26T 136.44T 4ØØ.55T 149.52R
COS-B	8Ø62	EURO SPACE AGCY	22ØØ	136.95T 148.35R
COSMOS 44	876	USSR	99	9Ø.Ø23T

D-1A	2Ø16	FR	118	149.7ØT 399.92T
D2-B2	8332	FR	96	136.74T 134.74R 148.56R
D5-B1	UNKN	FR	UNKN	136.25T 148.25R
D5-B2	UNKN	FR	UNKN	136.35T 148.25R
DENPA	6152	JAPAN	94	136.695T
DIADEME 1	2674	FR	1Ø3	136.98T 149.7ØT 399.92T
DODGE	2867	US	1315	136.8ØT
EARLY BIRD	1317	ITSO	1436	136.44T 136.98T
EGRS 1	729	US	1Ø3	136.8Ø3T
EGRS 3	12Ø8	US	1Ø3	136.84T
EGRS 13	3891	US	1Ø7	136.8ØT
ELEKTRON 1	746	USSR	167	3Ø.ØØ8T
ELEKTRON 2	748	USSR	1356	9Ø.225T
ERS 2Ø	2768	US	2839	136.26T
ERS 27	2769	US	2827	136.38T
ERS 28	3429	US	576	136.83T
ERTS 1-2	UNKN	UNKN	UNKN	137.86T 154.2ØR 4Ø1.55R
ESSA 1	1982	US	1ØØ	136.23T 136.92T 235.ØØT
ESSA 2	2Ø91	US	113	136.77T 137.5ØT
ESSA 5	2757	US	114	136.77T 235.ØØT
ESSA 6	3Ø35	US	115	136.77T 137.5ØT
ESSA 7	3345	US	115	136.77T 235.ØØT
ESSA 8	3615	US	115	136.77T 137.62T
ESSA 9	3764	US	115	136.77T
ETS 1	UNKN	JAPAN	UNKN	136.81T 148.27R
EXPLORER 8/XI-1	6Ø	US	1Ø9	1Ø8.ØØT
EXPLORER 11/NU-1	1Ø7	US	1Ø6	1Ø8.Ø58T
EXPLORER 2Ø	87Ø	US	1Ø4	136.326T 136.35T 136.68T
EXPLORER 22	899	US	1Ø5	4Ø.Ø1T 41.Ø1T 136.171T 136.739T 162.ØØT 324.ØØT 36Ø.Ø9T
EXPLORER 23	924	US	96	136.Ø78T 136.861T
EXPLORER 25	932	US	115	136.292T 136.273T 136.86T
EXPLORER 26	963	US	115	136.292T
EXPLORER 27	1328	US	1Ø7	4Ø.ØØT 41.ØØT 136.74T 162.ØØT 324.ØØT 36Ø.ØØT
EXPLORER 29	1726	US	12Ø	162.ØØT 324.ØØT
EXPLORER 31	18Ø6	US	121	136.38T
EXPLORER 32	2183	US	1Ø3	136.32T
EXPLORER 33	2258	US	7Ø673	136.Ø2T
EXPLORER 36	3Ø93	US	112	136.32T
EXPLORER 37	3141	US	97	136.41T 136.53T 137.59T
EXPLORER 38	33Ø7	US	224	136.35T 137.29T
EXPLORER 39	3337	US	1Ø7	136.62T
EXPLORER 4Ø	3338	US	118	136.29T 4ØØ.65T
EXPLORER 48/IMP-H	6197	US	175Ø7	136.2Ø8T 136.89T 137.572T 137.92
EXPLORER 5Ø/IMP-J	6893	US	17173	136.Ø2T 136.8ØT 137.58T 137.98T 148.98R
EXPLORER 55	844Ø	US	94	137.23T
FLTSATCOM-ATL (23° W LONG)		US	1436	USN 252.Ø5T 253.75T 255.45T 257.Ø5T 258.55T 265.45T 266.95T 268.35 269.85T DOD 261.45T 261.475T 261.5T 261.525T 261.55T 261.575T 261.6T 261.625T 261.675T 261.7T 261.725T 261.75T 261.775T 261.8T 261.825T 261.875T 261.9T 261.925T
FLTSATCOM-EAST PACIFIC (1ØØ° W LONG)		US	1436	USN 251.95T 253.65T 255.35T 256.95T 258.45T 265.35T 266.85T 268.25T 269.75T DOD 26Ø.35T 26Ø.375T 26Ø.4T 26Ø.425T 26Ø.45T 26Ø.475T 26Ø.5T 26Ø.525T 26Ø.55T 26Ø.575T 26Ø.6T 26Ø.625T 26Ø.65T 26Ø.675T 26Ø.7T 26Ø.725T 26Ø.8T 26Ø.825T
FLTSATCOM-INDIAN OCEAN (75° E LONG)		US	1436	USN 252.15T 253.85T 255.55T 257.15T 258.65T 265.55T 267.Ø5T 268.45T 269.95T DOD 263.35T 263.375T 263.4T 263.425T 263.45T 263.475T 263.5T 263.525T 263.55T 263.575T 263.6T 263.625T 263.65T 263.675T 263.7T 263.725T 263.75T 263.775T 263.8T 263.825T
FLTSATCOM-WEST PACIFIC (172° E LONG)		US	1436	USN 252.Ø5T 253.75T 255.45T 257.Ø5T 258.55T 265.45T 266.95T 268.35T 269.85T DOD 261.45T 261.475T 261.5T 262.525T 261.55T 261.575T

				261.6T 261.625T 261.65T 261.675T 261.7T 261.725T 261.75T 261.77T 261.8T 261.825T 261.85T 261.875T 261.9T 260.925T
FR 1	1814	FR	100	136.35T
GEOS	UNKN	FR	UNKN	137.20T 149.48R
GEOS 3	7734	US	102	136.32T
GOES 1/SMS-C	8366	US	1425	136.678T 468.85T 401.90R
GOES 2	10061	US	1436	136.38T 468.825T 468.85T 148.56R 401.90R
GOES 3	10953	US	1436	136.38T 468.825T
GRAVITY GRADIENT 1	728	US	103	136.317T
GRAVITY GRADIENT 3	1292	US	103	137.766T
GREB/ETA 2	46	US	101	108.00T
HCMM	10818	US	95	136.17T
INJUN/SR-3	117	US	103	108.08T 136.50T 400.00T
INTELSAT 2-F1	2514	ITSO	717	136.44T 136.98T
INTELSAT 2-F2	2639	ITSO	1435	136.44T
INTELSAT 2-F3	2717	ITSO	1436	136.44T
INTELSAT 2-F4	2969	ITSO	1435	136.44T
IOTA 2/ROCKET BODY	50	US	118	108.06T
ISIS 1	3669	CAN	128	136.08T 136.41T 136.59T 137.95T 401.75T 148.25R
ISIS 2	5104	CAN	113	SAME AS ISIS 1
ISS	UNKN	JAPAN	UNKN	136.81T 400.90T 148.27R
IUE	10637	US	1436	136.86T
JIKI'KEN	11027	JAPAN	468	136.695T
KIRUNA ROCKET	UNKN	SWEDEN	UNKN	216.25T 220.25T 222.25T 268.05T 271.15T 400.55T 499.95R 450.05R
LANDSAT 2	7615	US	103	137.86T 154.20R 401.55R
LANDSAT 3	10702	US	103	137.86T 154.20R 401.55R
MARISAT-ATL	UNKN	US	1436	249.10T 254.15T 257.55T 302.70R 307.75R 311.15R
MARISAT-PAC	UNKN	US	1436	SAME AS MARISAT-ATL
MAROTS	UNKN	FR	UNKN	137.17T 149.34R
METEOR (SERIES)	SEVERAL	USSR	97	461.50T 464.00T 466.50T
METEOSAT 1	10489	ESA	1436	137.08T 468.875T 468.925T 149.34R 402.10R
MS-T3	UNKN	JAPAN	UNKN	136.725T 400.50T
NIMBUS 3	3890	US	107	136.50T 136.95T 401.50T 466.00T (QRT)
NIMBUS 4	4362	US	107	136.50T 136.797T 136.95T 136.77R 149.52R
NIMBUS 5	6305	US	107	136.50T 149.52R
NIMBUS 6	7924	US	107	136.50T 401.20R
NOAA 5	9057	US	116	136.77T 137.14T 137.50T 137.62T
NOAA 6	11416	US	UNKN	137.50T
OAO 1	2142	US	101	136.26T (QRT)
OAO-A2	3597	US	100	136.259T 136.441T 400.549T 149.52R
OGO 1	879	US	3843	136.20T 400.25T 400.85T
OGO 2	1620	US	97	136.20T 136.712T 400.25T 400.85T
OGO 3	2195	US	2911	136.20T 400.25T 400.85T
OGO 5	3138	US	3746	SAME AS OGO 3
OSO 1/ZETA 1	255	US	94	136.744T
OSO 2	987	US	95	136.713T
OSO 4	3000	US	94	136.71T
OSO 6	4065	US	93	136.29T
OTS 2	10855	ESA	1436	137.05T 149.34R
OV-5/ERS-29	3950	US	3120	136.65T
OV5-6	3951	US	3115	136.38T
OV5-9	3952	US	3115	136.53T
RAE-B/EXPLORER 49	6686	US	SELINOCENTRIC ORBIT	136.145T 136.86T 137.575T 148.98R 400.95R
RELAY 1	503	US	185	136.14T 136.621T
RELAY 2	737	US	195	136.142T 136.62T
SHINSEI	5485	JAPAN	113	136.695T 400.50T 148.25R
SMS 1	7298	US	1436	136.38T 468.825T
SMS 2	7648	US	1437	136.38T 468.825T
SN 39	671	US	107	136.653T
SOLAR RAD 1	730	US	103	136.80T 136.886T
SOLRAD 2-A	8748	US	7372	137.80IT
SOLRAD 2-B	8749	US	122	136.53T
SRET 2	7910	FR	736	137.53T
SYMPHONIE B	8132	FR/GERMANY	1436	137.02T 148.25R
SYMPHONIE 3	UNKN	FR/GERMANY	UNKN	136.80T 148.25R
SYNCOM 2	634	US	1436	136.468T 136.98T
SYNCOM 3	858	US	1438	136.47T 136.98T
TAIYO/SRATS	7671	JAPAN	95	136.725T 400.45T 148.25R
TELSTAR 1	340	US	158	136.05T 120.00R (QRT)
TELSTAR 2	573	US	225	136.05T (QRT)

TIROS 1/BETA 2	29	US	99	1Ø7.997T 235.ØØT 237.8ØT
TIROS 2/PI 1	63	US	98	1Ø8.ØØT 235.ØØT 237.8ØT (QRT)
TIROS 3/RHO 1	162	US	1ØØ	1Ø8.ØØT 1Ø8.Ø3T 235.ØØT 237.8ØT
TIROS 4/BETA 1	226	US	1ØØ	136.23T 136.92T 235.ØØT 237.8ØT
TIROS 7	6Ø4	US	96	136.233T 136.922T 235.ØØT 237.8ØT
TIROS 8	716	US	99	136.233T 136.924T 235.ØØT 237.8ØØT
TIROS 9	978	US	119	136.234T 136.918T 235.ØØT 237.8ØT
TIROS 1Ø	1430	US	1ØØ	136.232T
TIROS 12/N	11Ø6Ø	US	1Ø2	136.77T 137.50T 137.62T 137.77T 235.ØT 237.8T 137.62R 148.56R 401.65R
TRAAC	2Ø5	US	1Ø6	54.ØØT 136.65T 324.ØØT
TRANSIT 2A/ETA 1	45	US	1Ø1	54.ØØT 162.ØØT 216.ØØT 324.ØØT
TRANSIT 4A	116	US	1Ø3	54.ØØT 149.988T 15Ø.ØØT 324.ØØT 399.968T
TRANSIT 4B	2Ø2	US	1Ø6	54.ØØT 136.8ØT 15Ø.ØØT 324.ØØT 4ØØ.ØØT
TRANSIT 5A	5Ø9	US	97	15Ø.ØØT 4ØØ.ØØT
VANGUARD 1	5	US	134	1Ø8.Ø12T (QRT)
VIKING LANDER 1	9Ø24	US	ON MARS	38Ø.9633T
VIKING LANDER 2	94Ø8	US	ON MARS	38Ø.9633T

IN ADDITION TO ABOVE FREQS NEWLY LAUNCHED US SATELLITES MIGHT ALSO USE:149.979 161.992 225.ØØ 243.72 243.727 243.888 243.945 343.955 243.96 243.965 243.97 243.975 243.98 243.985 243.99 243.995 244.Ø 244.1 244.Ø45 244.Ø55 244.Ø6 244.Ø65 244.Ø7 244.Ø75 244.Ø78 244.Ø8 244.Ø85 244.Ø9 244.Ø95 244.1 244.11 244.145 244.155 244.165 244.17 244.175 244.178 244.28 244.185 244.19 244.195 244.2 244.21 251.9 255.55 26Ø.6 261.7 266.85 279.Ø 323.984 328.925 333.725 334.925 335.225 335.261 335.3Ø9 335.321 335.324 335.325 335.355 335.37 335.385 367.136 378.6Ø9 39Ø.Ø82 399.934 4ØØ.384 4Ø1.Ø13 4Ø1.Ø38 4Ø1.Ø63 4Ø1.Ø88 4Ø1.113 4Ø1.138 4Ø1.163 4Ø1.188 4Ø1.213 4Ø1.238 4Ø1.75 (APOLLO PROGRAM USED 259.7 & 296.8)



ADDENDA

ARNOLD ENGINEERING DEVELOPMENT CENTER TENN 135.85 135.95 15Ø.195 15Ø.35 163.51 163.585 165.Ø1 173.585
MT ST HELENS VOLCANO WA GS 167.Ø25 (Rpts 168.5Ø) 164.675 169.825 FORESTRY 172.225
OCS SECURITY NEW YORK NY (This is a private company used to provide security for foreign dignitaries who visit NY) 851.837 (hand held units 154.6Ø)
WOODS HOLE OCEANOGRAPHIC INST MA 156.425 156.45 156.95 161.685 (HF on 2.098 2.163 4.141 6.212 8.283 12.422 16.566) CG 41.21 157.Ø5 157.125 157.15 157.175 164.3Ø

For those interested in hearing some of the agencies and other operators listed herein on their HF channels, the following are suggested as being in general use. This was compiled from my own files and from recent listings in the newspublications of the Newark News Radio Club, American Short Wave Listeners Club, & Speedx. A comprehensive listing is contained in Perry Ferrell's Confidential Frequency List (see introductory text):

US CUSTOMS/DEA anti-smuggling air patrols communicate with ground stations ATLAS (Wash DC/Ft Collins CO) and EPIC (El Paso TX) on 7.527 11.Ø76 18.666 MHz (The drug smugglers can be heard operating in Spanish between 7.4ØØ & 7.5ØØ MHz nites & 14.4ØØ to 14.5ØØ MHz days. Some of the so-called "spy numbers" operations heard throughout the HF spectrum are undoubtedly related to international drug trafficking.)

FBI 11.488 MHz

Defense Civil Prep Agency 1Ø.493 MHz

Lockheed Company 6.659 8.917 11.194 MHz

Smithsonian Astrophysical Inst 2Ø.6Ø8 MHz

NASA 4.486 MHz

FAA 7.477 8.125 13.626 MHz

Rockwell International 16.587 17.965 MHz

NORAD 4.435 9.Ø23 14.894 MHz

CAP 2.374 4.469 4.5Ø6 4.5Ø9 4.582 4.585 4.6Ø1 4.6Ø4 4.627 4.63Ø 7.635 MHz

Space & Missile Tact Communic Net 1Ø.3Ø5

Disaster Radio Service 1.762 1.769 1.776 1.783 1.79Ø 1.797 MHz

US NAVY 4.713 4.835 6.697 6.725 11.267 13.251 (Has used 7.895 MHz during maneuvers.)

National Weather Svc 2.776 3.363 5.925 5.937 6.978

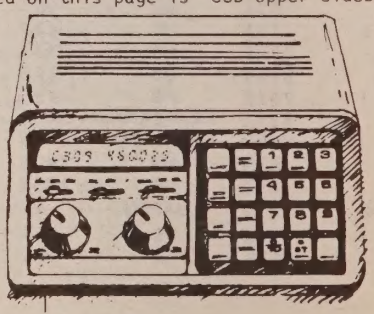
AIR FORCE 1 monitored on many freqs including 3.Ø71 6.715 8.993 11.226 11.249 11.615 13.215 15.Ø48 17.993 18.Ø27 23.265, however home base of AF-1 is Andrews AFB and that base can frequently be monitored working AF-1, AF-2, & SAM ("Special Air Mission" VIP flites) on 4.721 (nites), 13.247 (days), and at all hours on 6.756 & 9.Ø18.

US Military aircraft flites over N. America & surrounding waters: 6.727 9.Ø14 11.182 15.Ø15 18.ØØ2 MHz Over N. Atlantic/Europe 5.7Ø3 6.75Ø 9.Ø11 11.176 13.2Ø1 13.244 MHz; Over S. America/Lwr Carib/Lwr Afr continent/S. Atlantic 8.993 13.244 15.Ø15 MHz; Over China/Siberia/SW Asia/Pacific 6.738 13.2Ø1 18.ØØ2; Over Europe/Mediterranean/Middle East 5.7Ø3 6.75Ø 9.Ø11 11.176 13.2Ø1 15.Ø15 MHz; Over arctic areas 6.738 13.2Ø1 MHz.

USAF Strategic Air Command 4.725 6.761 9.Ø27 11.243 13.241 15.Ø41 17.975 MHz

AWACS (Airborne Warning & Control System Aircraft) are E-3A sentry craft which are on electronic surveillance missions use the ID "EDGY" followed by numerals). Monitored on 5.7ØØ 11.215 18.ØØ2 MHz.

SPACE SHUTTLE (launch ops) 10.78Ø-Pri 2Ø.39Ø-Sec also 6.7Ø8 & 7.461 noted in use by grnd & chase aircraft (All HF noted on this page is SSB-Upper Sideband)



SOME FEDERAL AGENCY CALLSIGNS

Many non-military agencies have been given callsigns. Some of these agencies actually use them on the air. This section is presented so you can see how such callsigns are structured for the various agencies as this information can be useful in helping to identify newly monitored stations.

ALASKA RAILROAD

KVZA ALICE (SHIP)
KVZN NENANA "
KVZP BARRY K "
WG2781 YUKON "
WG2995 TANANA "

BONNEVILLE POWER ADM

KOD925 MT VERNON WA
KOD966 BREWSTER WA

BUREAU OF INDIAN AFF

KKF5ØØ DULCE NM
KOC591 GOSHUTE UT
KOJ5Ø5 VALENTINE AZ
KOJ51Ø COOLIDGE AZ
KOJ515 MAMMOUTH AZ
KOJ53Ø SELLS AZ
KOJ531 KITT PEAK AZ
KOJ535 STEWART NV
KOJ542 GOSHUTE UT
KOJ55Ø WHITE RVR AZ
KOJ579 WASHINGTON NM
KOJ595 FT DUCHESNE UT
KPXT NORTH STAR III
KTPL MT EDGECUMBE

BUREAU OF MINES

KAD31Ø TWIN BUTTES AZ
KGC314 BRUCETON PA
KGC315 PITTSBURGH PA
KGC316 BRUCETON PA
KGC317 BRUCETON PA
KGC318 BRUCETON PA
KGC319 BRUCETON PA
KKF32Ø AMARILLO TX
KKF321 EXELL TX
KKF322 KEYES OK
KKF324 CLIFFSIDE TX
KKF325 EXELL TX
KKF326 BOULDER CITY NV
KKF327 ALBANY OR
KA2XRR PORTABLE
KA2XSS GOLDHILL CO
KA88ØØ MOBILE
KA88Ø2-3 MOBILES
KA8812 MOBILE
KA8814-19 MOBILES
KF736Ø-1 MOBILES
KF7365 MOBILE
KF7372 MOBILE
KF7377 MOBILE
KABM VIRGINIA CY
WZ2ØØ6 GEO B KELEZ

BUREAU OF PRISONS

KOE95Ø MC NEAL I WA
KOE951 MORGANTOWN WV
KOE955 HELIOGRAPH AZ
KOE957 LA TUNA TX
KOE975 SANDSTONE MI
KOE979 MILAN MI

BUREAU OF RECLAMATION

KAC8ØØ ESTES CO
KAC8Ø1 GRANBY CO
KAC8Ø2 CASPER MTN WY
KAC8Ø3 SEMINOLE WY
KAC8Ø4 GUERNSEY WY
KAC8Ø5 GERING NE
KAC8Ø6 SIDNEY NE
KAC8Ø7 BEAVER CRK CO
KAC8Ø8 CHADRON NE
KAC8Ø9 BLUE RIDGE CO
KAC81Ø ARCHER WY
KAC811 POLE HILL CO
KAC812 LUSKRURL WY
KAC813 CASPER WY
KAC814 SWEETWATER WY
KAC815 CHEYENNE WY
KAC816 BALD MTN CO
KAC817 STEGALL NE
KAC818 CRATER CANYN NE
KAC82Ø ORIN WY
KAC821 LOVELAND CO
KAC822 ALCOVA WY
KAC823 SHERMAN HILL WY
KAC824 WHALEN WY
KAC825 LOVELAND CO
KAC826 ERIE CO
KAC827 OTIS CO
KAC829 KIMBALL NE
KAC83Ø DUNLAP NE
KAC831 ALLIANCE NE
KAC832 GLENDO WY
KAC833 MERINO CO
KAC834 MEDICINE BOW WY
KAC835 N PLATTE NE
KAC838 GUERNSEY WY
KAC839 LARAMIE WY
KAC84Ø RAPID CY SD
KAC841 WOONSOCKET SD
KAC843 BOYSEN PEAK WY
KAC844 FT THOMPSON SD
KAC845 FT MORGAN CO
KAC846 MIDLAND SD
KAC847 CEDAR MTN WY
KAC85Ø HURON SUB SD
KAC851 FLANDREAU SD
KAC852 HURON SHOP SD
KAC853 TYNDAL SD
KAC854 PHILIP SD
KAC856 MORRIS MN
KAC857 REEHIGHTS SD
KAC858 MIDLAND SD
KAC859 CLARK SD
KAC86Ø HURON OFC SD
KAC861 GARY SD
KAC863 SIOUX FLS SUB SD
KAC864 WESSINGTN SPR SD
KAC865 ARLINGTON SD
KAC866 WICKSVILLE SD
KAC847 CEDAR MTN WY
KAC877 DEVILS LK ND
KAC872 BUFFALO PASS NE
KAC88Ø MC COOK NE
KAC881 NARROWS DAM CO
KAC882 ENDERS DAM NE
KAC883 TRENTON DAM NE
KAC884 MEDICINE CRK DAM NE
KAC886 LOVEWELL KS
KAC887 KIRWIN DAM KS
KAC889 WALL SD
KAC89Ø PIERRE SD
KAC891 ARMOUR SD
KAC892 PHILIP WHSE SD
KAC893 SIOUX CY IA
KAC894 BURKE SD
KAC895 GREGORY SD
KAC896 WINNER SD
KAC897 BONESTEEL SD
KAC898 GRANITE FLS SD
KAC899 GETTYSBURG SD
KAF62 WHITE PASS WA
KAF63 WAPATOX CNL WA
KAF64 NACHES-SELAH CNL WA
KAF65 ELLENSBURG WA
KAF66 CASCADE CNL WA
KAF67 WESTSIDE CNL WA
KAF82Ø LOWER MOLINA CO
KAF821 UPPER MOLINA CO
KAF822 I L CO
KAF826 MT VERNON SD
KAF827 SUMMIT SD
KAF828 YANKTON SD
KAF829 BROOKINGS SD
KAF83Ø SIOUX FLS SD
KAF831 LEMARS IA
KAF832 CHRTR OKS SD
KAF833 DENISON SD
KAF834 EXIRA SD
KAF835 CRESTON SD
KAF836 SPENCER SD
KAF837 PRIMGHAR SD
KAF838 PIERRE SD
KAF839 FLATIRON CO
KAF84Ø WELDONA CO
KAF841 WELD CO
KAF843 PANORAMA PK CO
KAF845 EL PORTAL CO
KAF846 MARYS LK CO
KAF848 AULT CO
KAF85Ø RDWLLW DAM NE
KAF853 GLNEDR DAM KS
KAF854 SUPERIOR NE
KAF856 CEDAR BLUFF DM KS
KAF86Ø PUEBLO CO
KAF862 HUNTER CO
KAF865 MT ELBERT CO
KAF866 MEREDITH CO
KAF867 HAGERMAN PASS CO
KAF868 MT HOOD ST PK CO
KAF869 NAST CO
KAF87Ø GRANITE CO
KAF871 LEADVILLE CO
KAF872 PUEBLO CO
KAF873 SALIDA CO
KAF874 PUEBLO CO
KAF875 CUNNINGHAM CO
KAF878 HARTINGTON SD
KAF88Ø WOLBACH SD
KAF881 SPALDING SD
KAF882 ORCHARD NE
KAF888 FAITH SD
KAF889 PIERRE SUB SD
KAF898 EAGLE BUTTE SD
KAF89Ø FAIRBURN SD
KAF891 DUPREE SD
KAF892 FAIRPOINT SD
KAF894 MARTIN SD
KAF896 MAURINE SD
KAF897 ELLSWORTH AFB SD
KAF899 NEWELL SD
KDT8ØØ RED CLOUD NE
KDT8Ø2 STOCKTON KS
KDT8Ø4 WEBSTER DAM KS
KDT8Ø5 NORTON KS
KDT8Ø6 NORTON DAM KS
KDT8Ø7 WAKEENEY KS
KDT8Ø8 GAYLORD KS
KDT81Ø ELLIS KS
KDT811 WHEELER KS
KDT812 MC COOK NE
KDT813 BONNY DAM CO
KDT814 GOODLAND KS
KDT815 ALMENA KS
KDT816 CAMBRIDGE NE

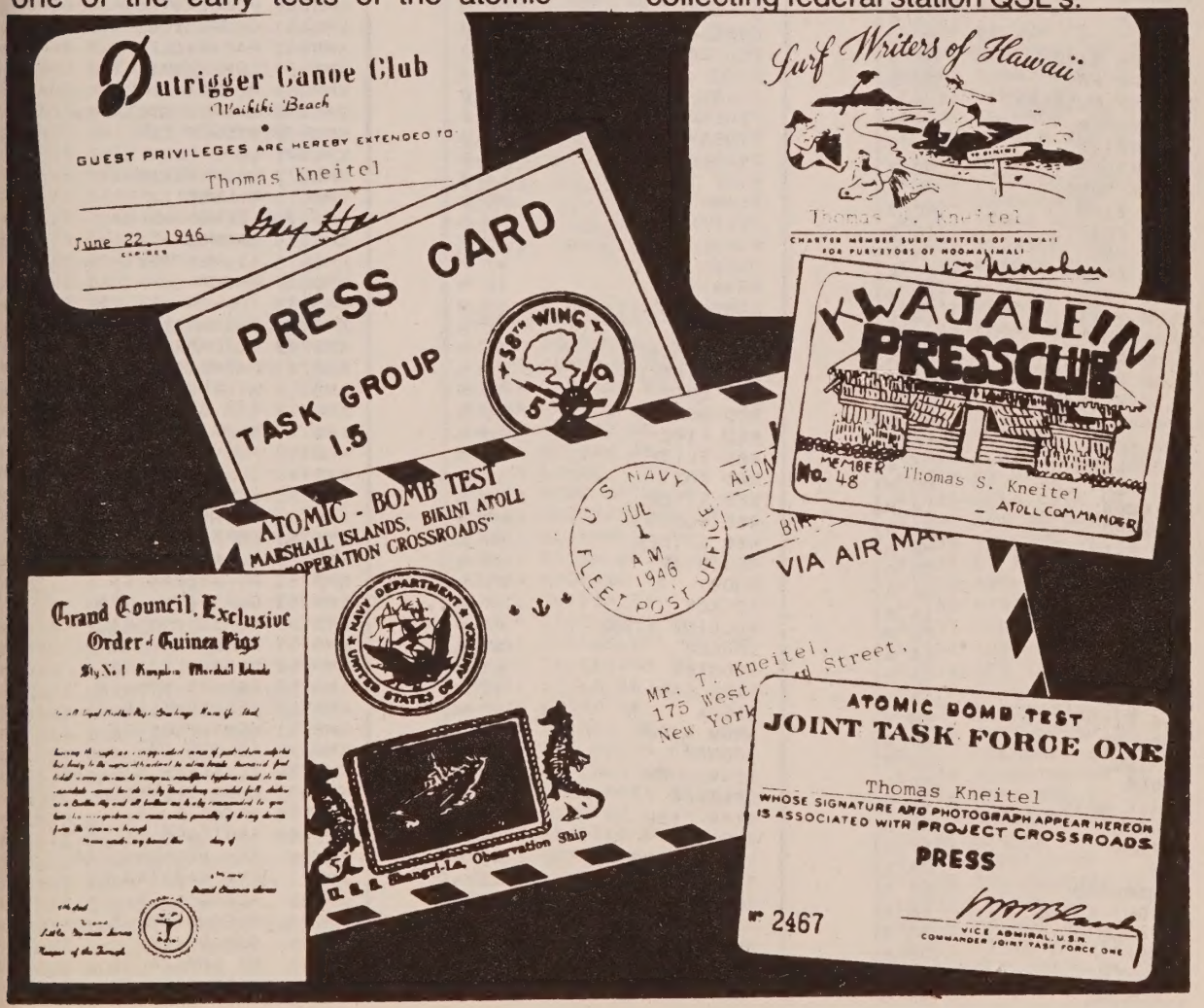
KDT817 CULBERTSON NE
KDT881 SCOGGINS OR
KDT882 L RIDGE CO
KDT883 GINTT ROCK CO
KDT884 POUDRE CO
KDT885 NARROWS DAM CO
KDT886 STERLING CO
KDT887 GRANBY DAM CO
KDT888 W PORTAL CO
KDT889 SHADOW MTN CO
KDT89Ø TABLE MTN CO
KDT891 WILLOW CREEK CO
KDT892 WILLOW CREEK CO
KDT893 GREEN MTN CO
KKF2Ø CIBOLA AZ
KKG42 ELDEN MTN AZ
KKG69 CHANDLER CNL WA
KKG7Ø ROZA CANAL WA
KKG71 KENNEWICK WA
KKG72 CASH PRARIE WA
KKG73 QUARTZ SPGS WA
KKG74 COOPER PASS WA
KKG75 ELENSBURG WA
KKG76 DOMERIE FLAT WA
KKG77 KITTITAS CNL WA
KKG78 BUMPING LK WA
KKG79 TIETON DAM WA
KKG8Ø RESERVATN CNL WA
KKG81 PROSSER WA
KKG82 MABTON WA
KKG83 PARKER WA
KKG84 TIETON HLDS WA
KKG85 NACHES WA
KKG86 TIETON RSVR WA
KKG87 UMTANUM WA
KKG88 ROZA DAM WA
KKG89 BUMPING LK WA
KKG9Ø EARLEAN WA
KKG91 NACHES WA
KKG92 BUMPING RVR WA
KKG93 TEANAWAY WA
KKG94 CLE ELUM RSVR WA
KKG95 EASTON WA
KKG96 CLE ELUM RSVR WA
KKG97 KACHESS WA
KKG98 KEECHELUS WA
KKG99 MANASTASH RDG WA
KMC8ØØ TRINITY CA
KMC8Ø1 CORNING CA
KMC8Ø2 SHASTA DAM CA
KMC8Ø3 KESWICK CA
KMC8Ø4 SACRAMENTO CA
KMC8Ø5 TRACY CA
KMC8Ø6 FRIONT DAM CA
KMC8Ø7 FRESNO CA
KMC8Ø8 ORANGE COVE CA
KMC8Ø9 LINDSAY CA
KMC81Ø GRAPEVINE PSS CA
KMC811 S FORK MTN CA
KMC812 ELVERTA CA
KMC813 NIMBUS CA
KMC815 MT OSO CA
KMC817 LOS BANOS CA
KMC819 BEAR MTN CA
KMC82Ø NEW MELONES CA
KMC821 WHITE RVR CA
KMC822 WILLOWS CA
KMC823 O'NEILL CA
KMC824 FOLSOM CA
KMC825 GRANITE RELAY CA
KMC829 J W CARR CA
KMC831 SPRING CREEK CA
KMC842 LK BERRYESSA CA
KMC848 LAGUNA CRK CA
KOC8ØØ REPEATER WA
KOC8Ø1 3RD PWR PLANT WA
KOC8Ø2 CASPER MTN WY
KOC8Ø3 GRAND COULEE WA
KOC8Ø5 RIRIE CRK ID
KOC8Ø6 GRAND COULEE WA
KOC8Ø7 NAMBE NM
KOC82Ø GOSHEN ID
KOC821 PALISADES ID
KOC824 MINIDOKA ID
KOC825 CHINA BAR
KOC84Ø CODY WY
KOC841 SHOSONE WY
KOC842 LOVELL WY
KOC843 BOYSEN PK WY
KOC844 BASIN WY
KOC845 BOYSEN WY
KOC846 PILOT BUTTE WY
KOC847 CEDAR MTN WY
KOC849 THERMOPOLIS WY
KOC85Ø MUDDY RIDGE WY
KOC89Ø POSTON AZ
KOD8ØØ EPHRATA WA
KOD8Ø3 OTHELLO WA
KOD8Ø4 MESA WA
KOD8Ø6 WAHATIS PEAK WA
KOD8Ø7 DRY FALLS WA
KOD8Ø8 O'SULLIVAN WA
KOD8Ø9 PASCO WA
KOD81Ø RADERVILLE WY
KOD813 STERLING CO
KOD814 FLAT IRON CO
KOD815 WRAY CO
KOD816 LIMON CO
KOD822 MOSES LK WA
KOD822 FARMINGTON NM
KOD828 FARMINGTON NM
KOD829 BLANCO NM
KOD83Ø BLANCO NM
KOF55 BOULDER CY CO
KOF56 NEEDLES CA
KOF57 BLYTHE CA
KOF58 IMPERIAL CA
KOF6Ø BAGDAD AZ
KOF61 TYLER FERRY CA
KOF62 HUALP MTN CA
KOF63 PT SMITH PK CA
KOF64 YUMA AZ
KOF65 POSTON AZ
KOF66 LAGUNA CA
KOF67 ALAMO AZ
KOF68 SPTN CNYN AZ
KOF69 YAVA AZ
KOF7Ø PARKER AZ
KOF71 PT SMITH PK AZ
KOF72 WHITE TANK MTN AZ
KOF73 PHOENIX AZ
KOF74 HOISTHOS
KOF75 RED MTN NV
KOF76 BOULDER CY NV
KOF94 HORSEFLT AZ
KOF95 SPTN CNYN AZ
KOF96 PALOD VRDS CA
KOF97 WATERWHEEL CA
KOF98 HEADGATE AZ
KOF99 BOUNDARY AZ
KOF8ØØ OWYHEE RDG OR
KOF8Ø2 MENAN BUTTE ID
KOF82Ø BOISE ID
KOF821 BLACK CNYN ID
KOF822 CASCADE ID
KOF823 DEADWOOD ID
KOF824 SHAFTER BUTTE ID
KOF826 ARROWROCK ID
KOF828 ANDERSON RNCH ID
KOF831 OROVILLE WA
KOF834 WAR EAGLE ID
KOF835 IDAHO CY ID
KOF836 ATLANTA ID
KOF837 LK POWELL ID
KOF838 MANASTASH RDG WA
KOF84Ø YAKIMA WA
KOF841 ELEPHANT MTN WA
KOF843 QUARTZ MTN WA
KOF844 ROZA DAM WA
KOF845 PROSSER HILL WA
KOF846 CHANDLER WA
KOF848 OWYHEE DAM ID
KOF849 ROME RIDGE OR
KOF85Ø POZA PWR PLNT WA
KOF865 ROME OR
KOF866 CORTEZ CO
KOF867 GREATCUT CO
KOF868 PK PT CO
KOF898 CLE ELUM WA
KOJ8ØØ PAGE AZ
KOJ8Ø2 TENDERFOOT CO
KOJ8Ø4 HOOVER DM NV
KOJ8Ø5 BOULDER CY NV
KOJ8Ø6 MARICOPA AZ
KOJ8Ø7 WILSON RDG AZ
KOJ8Ø8 HOOVER NV
KOJ8Ø9 BASIC CA
KOJ81Ø RED MTN NV
KOJ811 PARKER CA
KOJ812 WHT NECK MTN CA
KOJ813 PHOENIX AZ
KOJ814 DAVIS AZ
KOJ815 HULAP MTN AZ
KOJ816 MT UNION AZ
KOJ817 MT LEMMON AZ
KOJ818 TELEGRAPH PS AZ
KOJ819 GILA AZ
KOJ82Ø BLACK MTN CA
KOJ821 PT SMITH PK AZ
KOJ822 HUMBOLDT MTN AZ
KOJ823 HUTCH MTN AZ
KOJ824 CUNNINGHAM MTN AZ
KOJ825 PHOENIX AZ
KOJ826 PHOENIX AZ
KOJ827 BUCKHORN AZ
KOJ828 PARKER AZ
KOJ829 SALOME AZ
KOJ83Ø FLORENCE AZ
KOJ831 SITE 9 CA
KOJ832 SITE 8 CA
KOJ833 SITE 7 CA
KOJ834 SITE 6 CA
KOJ835 SITE 4 CA
KOJ836 SITE 3 CA
KOJ837 DAVIS AZ
KOJ839 SECONDARY AZ
KOJ84Ø YUMA AZ
KOJ841 BOULDER CY AZ
KOJ842 WILSON RDG AZ
KOJ843 SIGNAL AZ
KOJ844 IMPERIAL CA
KOJ845 SENTRWSH CA
KOJ846 ED-2 AZ
KOJ847 ED-4 AZ
KOJ848 ED-5 AZ
KOJ849 CASA GRNDE AZ
KOJ85Ø NOGALES AZ
KOJ851 BOUSE AZ
KOJ854 YM-2 AZ
KOJ855 YM-3 AZ
KOJ856 YM-4 AZ
KOJ857 CUNNINGHAM MTN AZ
KOJ858 YM-5 AZ
KOJ859 YM-6 AZ
KOJ86Ø COOLIDGE AZ
KOJ861 YM-7 AZ
KOJ862 YM-8 AZ
KOJ863 YM-9 AZ
KOJ864 YM-1Ø AZ
KOJ865 YM-11 AZ
KOJ866 YM-12 AZ
KOJ867 YM-13 AZ
KOJ868 YV-7 AZ
KOJ869 YV-13 AZ
KOJ871 YV-23 AZ
KOJ872 YV-25 AZ
KOJ873 YV-27 AZ
KOJ874 YV-28 AZ
KOJ875 YUMA AZ
KOJ888 COOLIDGE AZ
KOP8ØØ FLAMINGO RDG UT
KOP8Ø1 GRIZZLY RDG UT
KOP8Ø2 MGNTC MTN CO
KOP8Ø3 CRYSTAL CO
KOP8Ø4 SUNLITE CO
KOP8Ø5 RASPBERRY CO
KOP8Ø6 PEAK PT CO
KOP8Ø7 CRYSTAL CO
KOP8Ø8 4 CORNERS NM
KOP8Ø9 GLEN CANYN AZ
KOP81Ø ELDEN MTN AZ
KOP812 BUFFALO PASS CO
KOP813 SHEEP KNOB CO
KOP814 I L CO
KOP815 MORROW CO
KOP816 KAYENTA UT
KOP817 GREEN RIVER WY
KOP818 GRIZZLY RDG UT
KOP819 FONTENLL WY
KOP82Ø LOWER MOLINA CO
KOP821 UPPER MOLINA CO

KOP822 FONTENLL CRK WY
KOP823 MONTROSE CO
KOP824 PAGE AZ
KOP825 ABAJOPEK UT
KOP826 MTDST MTN CO
KOP827 TURKEY CREEK CO
KOP828 MIDWAY CO
KOP829 BLUE MESA CO
KOP83Ø WHITE MTN CO
KOP831 TERMINAL UT
KOP832 NINTTHSO UT
KOP833 JORDAN NRWS UT
KOP834 LEHI UT
KOP835 OREM UT
KOP836 PROVO UT
KOP837 GOSHEN UT
KOP838 PAYSON UT
KOP839 MONA UT
KOP84Ø LOAFER MTN UT
KOP841 PROVO BAY UT
KOP842 WATER CANYN UT
KOP843 HAYES UT
KOP844 DYNE UT
KOP845 6TH WATER UT
KOP846 SYAR UT
KOP847 JORDANLL UT
KOP848 NEPHI UT
KOP849 ABAJOPEK UT
KOP855 TYZACK UT
KOP86Ø TABBY MTN UT
KOP861 DUCHESNE UT
KOP862 COW HOLLOW UT
KOP863 WATER HLLW UT
KOP864 SOLDIER CRK UT
KOP865 SOLDIER CRK UT
KOP866 LAYOUT UT
KOP867 CURRENT CRK UT
KOP868 VAT UT
KOP869 RHODES UT
KOP87Ø HADES CRK UT
KOP871 UPR STILLWATR UT
KOP886 BASIC NV
KOP887 BLYTHE CA
KOP888 COOLIDGE AZ
KOP889 COCHISE AZ
KOP89Ø GILA AZ
KOP891 KNOB CA
KOP982 LIBERTY AZ
KOP893 MEAD NV
KOP894 MESA AZ
KOP895 ORACLE AZ
KOP896 PINNACLE PK AZ
KOP897 PRESCOTT AZ
KOP898 TUCSON AZ
KOP899 WALNUT MOHAWK AZ
KTD893 GREEN MTN CO
KA2XRX AZ

CIVIL AIR PATROL (USAF-AUX)
STATIONS GENERALLY ID BY A CODED IDENTIFICATION WORD REPRESENTING THEIR WING (STATE) AND SHOWING IF THE UNIT IS A BASE (B), A MOBILE (M) OR AERO (A). THIS WORD IS FOLLOWED BY A NUMBER FOR THE INDIVIDUAL UNIT. "CHEYENNE 7" WOULD BE AIRCRAFT #7 OF THE SOUTH DAKOTA WING. EACH CAP WING (STATE ORGANIZATION) HAS BEEN ASSIGNED AN ACTUAL OVERALL CALLSIGN COVERING THESE OPERATIONS, THESE ARE ALSO SHOWN HERE.

KAF357 CO WING
KAF358 IA WING
KAF359 KS WING
KAF36Ø MN WING
KAF361 MO WING
KAF362 NE WING
KAF363 ND WING
KAF364 SD WING
KCC464 MD WING
KCC465 PA WING
KCC59Ø CT WING
KCC591 ME WING
KCC592 MA WING
KCC593 NH WING
KCC594 RI WING
KCC595 VT WING
KEC994 NJ WING
KEC995 NY WING
KGC462 DE WING
KGC463 DC WING

When I tuned in on station NCLG aboard the U.S.S. APPALACHIAN (heard on 10.640 MHz) I decided to try for a QSL from a ship participating in one of the early tests of the atomic bomb. Not only did I receive a QSL, but accompanying the QSL was a spectacular array of souvenirs commemorating the test. That helped to start me off collecting federal station QSL's.



KIG442 AL WING
KIG443 GA WING
KIG444 FL WING
KIG445 KY WING
KIG446 NC WING
KIG447 SC WING
KIG448 TN WING
KIG449 VA WING
KKI719 AR WING
KKI72Ø LA WING
KKI721 MS WING
KKI722 NM WING
KKI723 OK WING
KKI724 TX WING
KME824 CA WING
KOB425 ID WING
KOD427 NV WING
KOF424 AZ WING
KOF426 MT WING
KOF428 OR WING
KOF429 UT WING
KOF43Ø WA WING
KOF431 WY WING
KQA677 AK WING
KQD4Ø5 MI WING
KQD4Ø6 OH WING
KQD4Ø7 WV WING
KSC952 IL WING
KSC953 IN WING
KSC954 WI WING
KUA341 HI WING
WWA353 PR WING

AERO	DC	B
AERODYNE	DC	M
AERONAUT	DC	A
AIR RHODY	RI	A
AIRCAP	NJ	A
ANGEL	MT	A
ASH	WA	A
AURORA	AK	A
BADGER	WI	B
BARFLY	DE	A
BEAVER BIRD	OR	A
BEAVER FOX	OR	B
BEAVER MUSKRAT	OR	M
BLACKBEAR	CA	M
BLACKBIRD	MO	A
BLACKFOOT	ND	B
BLACK HAWK	OH	B
BLUE BIRD	MO	B
BLUE CHIP	TN	B
BLUE DOG	IA	M
BLUE EAGLE	TX	A
BLUE FIRE	IN	M
BLUE FLITE	VA	B
BLUE FOX	IL	A
BLUE RIVER	CO	A
BLUE ROBIN	MI	A
BLUE STAR	GA	A
BOBCAT	NH	M
BOX KAR	SC	A
BROWNBEAR	CA	A
BUFFALO	NE	M
BULLDOG	IA	M
BUZZARD	WI	A
CAT FISH	MN	A
CHEYENNE	SD	A
CLIPPER	MA	A
CORN STATE	IA	B
CRANE	FL	M
CYCLONE	IA	A
DACOTAH	SD	B
DIAMOND	AR	A
DOG FISH	MN	M
DOGWOOD	AR	B
DOMINO	NJ	M
EAGLE	FL	A
EAGLE NEST	TX	B
EMPIRE	NY	B
FATHER	MT	B
FIR	WA	B
FIREBRAND	HI	B
FLIGHT STONE	PA	A
FREEDOM	MA	B
GABBY	DE	B
GASWELL	OK	A
GERONIMO	AZ	M
GOLD CHIP	TN	A
GOLD EAGLE	TX	M
GOLDEN ROD	AL	B
GRAY HAWK	OH	M
GREEN FIRE	IN	A
GREEN FLITE	VA	M
HIBOY	HI	A
HIGHLAND	WV	A
HORNET	ID	A
HOT ROD	AL	M
HURRICANE	PR	A
JACK	WY	A
JAY BIRD	MO	M
JAYHAWK BAT	KS	A
JAYHAWK BUG	KS	M
JAYHAWK POST	KS	B
JET	MD	A
JET PILOT	KY	A
KEYSTONE	PA	B
KIDDY KAR	SC	B
KING	WY	B
LITTLE RHODY	RI	M
LOWLAND	WV	B
MAD DOG	NC	A
MAGNOLIA	LA	B
MAGPIE	ID	B
MANDAN	SD	M
MANSFIELD	VT	A
MAPLE	WA	M
MARBLE	VT	M
MEADOWLARK	NE	A
MIDDLEGROUND	KY	B
MOBILE	HI	M
MOCKING BIRD	MS	B
MOHAWK	ND	A
MOTHER	MT	M
MUSKRAT	LA	M
NAVAJO	NM	A
NORTH WIND	NV	B
NUTMEG	CT	B
OILWELL	OK	M
OVERLAND	WV	M
PELICAN	LA	A
PICO	VT	B
PIKES PEAK	CO	B
PINEAPPLE	PR	B
PINEAYR	MD	A
PINEKARR	ME	B
PINE TREE	LA	B
PLANT	MD	B
PROFILE	NH	B
PUEBLO	NM	B
QUEEN	WY	M
RABBIT	ID	M
RAMBLER	CT	M
RAMROD	AL	A
RAZORBACK	AR	M
RED BIRD	MO	M
RED CHIP	TN	M
RED DOG	NC	B
RED FIRE	IN	B
RED FLITE	VA	A
RED FOX	IL	B
RED RIVER	CO	M
RED ROBIN	MI	B
RED SPIDER	NV	A
RED STAR	GA	B
RHODY	RI	B
ROCKET	CT	A
ROLLING STONE	PA	M
SAUCER	NH	A
SCOOTER	WI	M
SIDE KAR	SC	M
SIOUX	ND	M
SNOW BIRD	MN	A
SOONER	OK	B
SOURDOUGH	AK	B
SPARROW	FL	B
STAR FISH	MN	B
SUGAR	PR	M
THUNDERBIRD	AZ	B
TOMAHAWK	AZ	A
TOMCAT	NY	M
TUG	MD	M
UNCLE ABLE	UT	A
UNCLE MIKE	UT	M
UNCLE WILLIE	UT	B
VAGABOND	DE	B
WHIRLAWAY	KY	M
WHITE BEAR	CA	B
WHITE HAWK	OH	A
WHITE ROBIN	MI	M
WHITE STAR	GA	M
YELLOW FOX	IL	M
YELLOW JACKET	NV	M
ZIGZAG	NJ	B
ZUNI	NM	M

CAP REGIONAL UNITS

GREAT LAKES	KSF248
MIDDLE EASTERN	KIL769
NORTH CENTRAL	KAJ5Ø6
NORTHEASTERN	KGC632
PACIFIC	KMG664
ROCKY MOUNTAIN	KAI562
SOUTHEASTERN	KIJ96Ø
SOUTHWESTERN	KKQ266

DEPT OF AGRICULTURE
FORESTRY SERVICE

KAC2Ø4 STEAMBOAT CO
KAC2Ø5 WALDEN CO
KKE71Ø TAOS NM
KKE711 CANJILON NM
KKE712 VAQUEROS NM
KKE727 MIMBRES NM
KKE73Ø SILVER CY NM
KKE731 MUGOLLON NM
KKE732 WILLOW CRK NM
KKE735 MAYHILL NM
KKE736 MESA NM
KKE738 CAPITAN NM
KKE739 WOFFORD NM
KKE74Ø SANTA FE NM
KKE742 COYOTE NM
KKE744 CUBA NM
KMB658 ESCONDIDO CA
KMB66Ø PLACERVILLE CA
KMB661 GEORGETOWN CA
KMB662 PACIFIC CA
KMB663 LUMBERYARD CA
KMB664 MEYERS CA
KMB666 HAYFRK BALLY CA
KMB67Ø BISHOP CA
KMB671 LONE PINE CA
KMB672 CASA VIEJA CA
KMB673 TUNNEL CA
KMB674 LEEVENING CA
KMB675 MAMMOUTH CA
KMB679 SILVER PEAK CA
KMB68Ø YREKA CA
KMB689 TURNER MTN CA
KMB69Ø SUSANVILLE CA
KMB7ØØ ALTURAS CA
KMB7Ø2 HAPPY CAMP CA
KMB71Ø WILLOWS CA
KMB72Ø STA BARBARA CA
KMB727 KING CY CA
KMB74Ø PORTERVLLE CA
KMB741 TOBJAS CA
KMB742 SPRINGVILLE CA
KMB747 SHIRLEY PK CA
KMB748 CUYAMACA PK CA
KMB75Ø CLOVER MDW CA
KMB751 HI SIERRA CA
KMB752 GOAT MTN - CA
KMB753 HORSE MTN CA
KMB755 EUREKA CA
KMB76Ø NEVADA CY CA
KMB761 BANNER MTN CA
KMB77Ø WEAVERVILLE CA
KMB771 NORTHFORK CA
KMB779 SONORA CA
KMB784 TELEGRPH HILL CA
KMB787 RUBY BLUFF CA
KMB79Ø ARCADIA CA
KMB799 SANTIAGO PK CA
KME2Ø SAN BERNRDNO CA
KME21 STA BARBARA CA
KME22 ARCADIA CA
KME23 ESCONDIDO CA
KME24 SONORA CA
KME25 MT SHASTA CA
KME26 NORTHFORK CA

KOC207 POWELL STA ID
KOC223 WATERSMEET MI
KOC226 AUGUSTA MT
KOC227 BELT CREEK WY
KOC228 STANFORD MT
KOC230 HELENA MT
KOC245 CORAM MT
KOC246 SPOTTED BEAR MT
KOC283 SPRINGERVLLE AZ
KOC285 ESCUDILLA LKT AZ
KOC297 LARAMIE WY
KOC298 PORTLAND OR
KOC299 PENDLETON OR
KOC300 BOISE ID
KOC301 SHAFER BUTTE ID
KOC303 CASCADE ID
KOC306 LANDMARK ID
KOC319 KENNERER WY
KOC320 COKEVILLE WY
KOC321 BIG PINEY WY
KOC322 LA BARGE WY
KOC323 PINEDALE WY
KOC324 AFTON WY
KOC325 BEDFORD WY
KOC358 BURLEY ID
KOC359 TWIN FALLS ID
KOC360 ROCK CREEK ID
KOC361 OAKLEY ID
KOC362 ALBION ID
KOC363 MALTA ID
KOC381 HAILEY ID
KOC400 RENO NV
KOC410 SALT LK CY UT
KOC415 SAFFORD AZ
KOC416 ROSE PARK AZ
KOC418 COLUMBINE AZ
KOC420 FREDONIA AZ
KOC422 WILLIAMS AZ
KOC423 PRESCOTT AZ
KOC428 HOLBROOK AZ
KOC436 FLAGSTAFF AZ
KOC437 EDEN MTN AZ
KOC446 SEATTLE WA
KOC447 BOISE ID
KOC448 MISSOULA MT
KOC451 MCKENZIE BRDG OR
KOC455 UNIVERSTY MTN MT
KOC518 SWIFT CURR LKT MT
KOC526 SIGNAL PEAK WA
KOC527 SIGNAL PEAK WA
KOC528 JENNIES BUTTE WA
KOC529 STATUS PEAK WA
KOC530 GRAYBACK WA
KOC531 BARLAND MTN WA
KOC532 SIMCOE MT
KOD59 COVILLE WA
KOD60 SANDPOINT ID
KOD61 COEUR DALENE ID
KOD62 S MARIES ID
KOD63 OROFINO ID
KOD64 GRANGEVILLE ID
KOD65 THMPSN FLS MT
KOD66 LIBBY MT
KOD67 KALISPELL MT
KOD68 HAMILTON MT
KOD69 MAMMTH HOT SPR MT
KOD70 MISSOULA MT
KOD71 W GLACIER MT
KOD72 MC CALL ID
KOD73 SALMON ID
KOD74 CHALLIS ID
KOD75 IDAHO CY ID
KOE551 BALKYHILL TSP WA
KOE560 OVERTURF BUTTE OR
KOE564 BLK CAP PT OR
KOE569 HEMLOCK WA
KOE574 RANDLE WA
KOE576 JOHN DAY OR
KOE577 BEAR VLY OR
KOE580 GLACIER WA
KOE582 CONCRETE WA
KOE586 RUBY CRK STA WA
KOE588 DARRINGTON WA
KOE593 COLMBIA GORGE OR
KOE598 ZIGZAG STA OR
KOE606 BURNS BUTTE OR
KOE613 SNIDER STA WA
KOE615 QUILCENE STA WA
KOE627 PELICAN BUTTE OR
KOE633 GRANTS PASS OR
KOE634 POWERS OR
KOE635 AGNESS OR
KOE636 GALICE OR
KOE637 CAVE JCT OR
KOE638 CHETCO OR
KOE640 ONION MTN OR
KOE642 MC GRIBBLE OR
KOE643 WESTMORE OR
KOE644 EDEN RDG OR
KOE645 FORDS CAMP OR
KOE647 WALDPORT STA OR
KOE650 SEATTLE WA
KOE651 N BEND OR
KOE666 CABBAGE HILL OR
KOE682 ENTERPRISE OR
KOE686 LEAVENWORTH WA
KOE689 STEVENS PASS WA
KOE692 BAKER OR
KOE693 MT EMILY OR
N-281-Z AIRCRAFT
N-6814-S AIRCRAFT
WC4589 SCOW #6 (SHIP)
SITKA RANGER
TONGASS RANGER
HAVEN

DEPT OF DEFENSE
ATOMIC SUPPORT AGCY
KIPF ACANIA (VESSEL)

DRUG ENFORCEM ADMN

KLR705 BOSTON MA
KLR706 NEW HAVEN CT
KLR710 NEW YORK NY
KLR715 PHILA PA

ENERGY, DEPT OF

KFW696 PLAQUIMINES LA
KFW697 METARIE LA
KFW698 NEW ORLEANS LA
KFW701 W HACKSBRY LA
KGB512 UPTON NY
KGB517 UTON NY
KGI302 W HACKSBRY LA
KKQ636 PADUCAH KY
KOB740 PADUCAH KY
KSX676 PADUCAH KY
WU4503 UPTON NY

FEDERAL AVIATION ADMIN

KAB34 TUCUMCARI NM
KAC26 CORDOVA AK
KAE21 LANSING MI
KAH94 HAINES AK
KAJ28 JUNEAU AK
KAK20 KODIAK AK
KAL38 LIHUE HI
KAM24 MINCHUMINA AK
KAN34 CHATTANOOGA TN
KAO28 ELIZABETH NC
KAO31 BATON ROUGE LA
KAP24 MIDLAND TX
KAR28 ODESSA TX
KAS24 SISTERS I AK
KAU51 UNALAKLEET AK
KAV83 TALKEETNA AK
KAW27 SITKA AK
KAZ28 ANIAK AK
KBB54 BETHEL AK
KBD82 BIG DELTA AK
KBE43 BETTLES AK
KBF94 FAIRBANKS AK
KBH49 HILO HI
KBH85 COFIELD NC
KBJ85 NORTHWAY AK
KBL69 KENAI AK
KBN58 NOME AK
KBN72 SAVANNAH GA
KBQ25 FT WORTH TX
KBO67 TANANA AK
KBR71 JUNCTION TX
KBS48 SUMMIT AK
KBU29 SPRINGFLD IL
KBX44 ANCHORAGE AK
KBY33 SANTA FE NM
KBZ80 GREER SC
KCA20 N PLATTE NE
KCA29 LK CHARLES LA
KCA37 BROWNSVL TX
KCA58 RALEIGH NC
KCB22 COLD BAY AK
KCC97 DIAMND HD HI
KCD20 TAOS NM
KCD72 GUAM MI
KCD73 ISLIP NY
KCF31 FAREWELL AK
KCG31 GALENA AK
KCH20 HOMER AK
KCJ20 FARMINGTON MN
KCJ70 AUBURN WA
KCK35 KING SALMON AK
KCK47 LAFAYETTE LA
KCP63 LONGMONT CO
KCR60 MC GRATH AK
KCU94 KAHULUI HI
KDC20 SALT LK CY UT
KDC55 LOMETA TX
KDM44 MESA RICA NM
KDM45 SAN JUAN PR
KDM47 FT WORTH TX
KDM48 PAGO PAGO AS
KDM49 ATLANTA GA
KDM50 HAMPTON GA
KDM51 MERIDIAN MS
KDM52 MEMPHIS TN
KDM53 ANCHORAGE AK
KDP37 SILVER CY NM
KDQ21 WILMINGTON NC
KEA37 ALBUQUERQUE NM
KEA82 ZUNI NM
KEB24 GREEN BAY WI
KEB66 HOUMA LA
KED54 BALBOA CZ
KED67 BEAUMONT TX
KEE67 CHANDALAR LK AK
KEF63 LYNCH KY
KEG95 GULFPORT MS
KEH74 W PALM BCH FL
KEJ28 KOTZEBUE AK
KEM80 WASH DC (HQ)
KEK41 JAMAICA NY
KEX63 TAMPA FL
KFC87 KNOXVLLE TN
KFS80 GARDEN CY KS
KGA25 GULKANA AK
KGA32 HONOLULU HI
KGA46 FARMINGTON NM
KGB20 MIDDLETN I AK
KGC34 PENSACOLA FL
KGC36 PALACIOS TX
KGD33 SKWENTNA AK
KGG20 GUSTAVUS AK
KGH23 ALBUQUERQUE NM
KGJ42 ST PAUL MN
KIA21 OKLA CITY OK
KIA48 SAN ANTONIO TX
KIC30 HOUSTON TX
KIN80 GT FALLS MT
KIS70 ANCHORAGE AK
KIT88 MARTINSBG WV
KJB35 CORPS CHRSTI TX
KJB96 AURORA IL
KJK73 LOS ANGELES CA
KJK74 FAIRBANKS AK
KJK75 SANTA BARB CA
KJK76 RONKONKOMA NY
KJK77 PALMDALE CA
KJK78 JOHNSTNE PT AK
KJK79 HILLIARD FL
KJK80 LEESBURG VA
KJK81 NASHUA NH
KJK82 JAMAICA NY
KKA36 TALLAHESSEE FL
KKA82 OLATHE KS
KKD50 DENTON TX
KKD61 HINCHNBRK AK
KKE47 DILLINGHM AK
KKU40 KANSAS CY MO

KKU5Ø BISMARCK ND
KKU51 PIERRE SD
KKU54 PORTLAND ME
KKU56 HOULTON ME
KKU7Ø AUGUSTA ME
KKU8Ø BANGOR ME
KKU84 RENO NV
KKV2Ø LAS VEGAS NV
KKV65 RED BLUFF CA
KKV96 ONTARIO CA
KKW22 PITTSBGH PA
KKW23 BRISTOL TN
KKW51 ASHEVILLE NC
KKW89 WASH DC
KKW92 YAKUTAT AK
KKX7Ø CROSSVILLE TN
KKY21 KETCHIKAN AK
KKY44 OMAHA NE
KKY5Ø TOPEKA KS
KKY51 ST LOUIS MO
KKY52 PROVIDENCE RI
KKY53 MILWAUKEE WI
KKY54 GREENWOOD MS
KKY71 ALBANY NY
KKY72 SO BEND IN
KKY94 BALTIMORE MD
KKZ26 SPRINGFLD MO
KKZ27 BEDFORD VA
KKZ68 WICHITA KS
KKZ69 BURLINGTON VT
KKZ74 MOLINE IL
KKZ75 BUFFALO NY
KLA2Ø KANSAS CY MO
KLA21 VANDALIA IL
KLA23 MC COMB KS
KLA25 OBERLIN OH
KLB48 INDIANAPOLIS IN
KLB79 COLUMBUS OH
KLB78 CHARLESTON WV
KLC41 DUBOIS PA
KLC46 NEWARK NJ
KLC48 MONTGOMERY AL
KLD27 GR RAPIDS MI
KLD46 NORFOLK VA
KLD57 ROANOKE VA
KLD58 INDIANAPOLIS, IN
KLD69 CLEVELAND OH
KLD7Ø NASHUA NH
KLD73 MINNEAPOLIS MN
KLD81 WILKES BARRE PA
KLD95 KEY WEST FL
KLE72 CHICAGO IL
KLE8Ø DETROIT MI
KLE86 MEMPHIS TN
KLF21 N CANTON OH
KLF28 PUNTILLA LK AK
KLF28 ST JOSEPH MO
KLF74 SCOTTSBLUFF NE
KLG27 CHICAGO IL
KLG77 HUTCHINSON KS
KLH6Ø PATRICK AFB FL
KLH7Ø MURPHY DOME AK
KLH72 NANTUCKET MA
KLI51 LANAI HI
KLI52 KEAHOLE HI
KLI79 WAIMANALO HI
KLJ26 DALL/FT WORTH TX
KLK48 MOLOKAI HI
KLM37 TUSCALOOSA AL
KLM92 HAGERSTOWN MD
KLM93 LINDEN VA
KLM94 STARR HILL NY
KLN8Ø ATLANTIC CY NJ
KMA47 MIAMI FL
KMA5Ø BIORKA I AK
KMJ2Ø MOBILE AL
KMR96 FREMONT CA
KMU31 HOUSTON TX
KNH47 LONDON KY
KOB92 SHREVEPORT LA
KOJ77 LOS ANGELES CA
KOR82 ORLANDO FL
KOS41 OKLA CITY OK
KRA54 WICHITA FLS TX
KPG44 MISSOULA MT
KQA59 LEVEL I AK
KSA75 HONOLULU HI

KSB53 ST THOMAS VI
KSE31 PANAMA CY FL
KSF7Ø TRACY CA
KUA21 GAINESVILLE FL
KUQ95 BRUNSWICK GA
KUR64 CHARLESTON SC
KUR65 MYRTLE BCH SC
KUR66 NEW BERN NC
KUR67 VALDOSTA GA
KUR68 DOTHAN AL
KUR87 HATTIESBRG MS
KUS79 FLORENCE SC
KUU58 CRESTVIEW FL
KUU97 ST CROIX VI
KUV5Ø BIMINI I BAH
KUV62 ATLANTA GA
KUV64 ATLANTA GA
KUV7Ø NASHVILLE TN
KUW42 LOUISVILLE KY
KUX58 COVINGTON KY
KUX86 LEXINGTON KY
KUY73 GREENSBORO NC
KUZ31 COLUMBIA SC
KUZ66 AUGUSTA GA
KVA27 MACON GA
KVA92 COLUMBUS GA
KVA93 BIRMINGHAM AL
KVA94 JACKSON MS
KVA95 HUNTSVILLE AL
KVH4Ø SARASOTA FL
KVM7Ø EWA HI
KWF53 FT MYERS FL
KXC7Ø MELBOURNE FL
KXG85 DAYTONA FL
WBR7Ø PERRINE FL
WEK71 NEW ORLEANS FL
WFP7Ø ST CROIX VI
WHX2Ø SEATTLE FL
WHX21 MOBILE AL
WHX22 BOISE ID
WHX25 EUGENE OR
WHX26 MEDFORD OR
WHX27 REDMOND OR
WHX3Ø OLYMPIA WA
WHX33 PASCO WA
WHX35 MEDFORD OR
WHX37 POCATELLO ID
WHX39 REDMOND OR
WHX4Ø PORTLAND OR
WHX41 BOISE ID
WHX42 SPOKANE WA
WHX44 MT KAALA HI
WHX45 BURLINGTON MA
WHX46 DENVER CO
WHX47 VERO BCH FL
WHX48 ST PETE FL
WHX49 JACKSONVL FL
WHX5Ø MIAMI FL
WHX51 DES PLAINES IL
WHX52 ANCHORAGE AK
WHX55 TELFERS I CZ
WHX57 DES MOINES IA
WHX58 COLUMBIA MO
WHZ7Ø TELFERS I CZ
WHZ71 FT LAUDERDALE FL
WRW7Ø CIBUCO PR
WSG7Ø ALMA GA
WSX7Ø KENAI AK
WSY7Ø SAYVILLE NY
WWQ7Ø ST THOMAS VI

FEDERAL BUR INVESTIG

KAC92Ø MINNEAPOLIS MN
KAC921 ST PAUL MN
KAC924 PIERRE SD
KAC925 DULUTH MN
KAC926 SIOUX FLS SD
KAC929 GR FORKS ND
KAC93Ø RAPID CY SD
KAC932 MINOT ND
KAC933 BEMIDJI MN
KCB8ØØ BOSTON MA
KCB8Ø1 PROVIDENCE RI
KEC254 WATERTOWN NY
KEC256 SYRACUSE NY
KEC257 UTICA NY

KEC258 BURLINGTON VT
KEC259 PLATTSBRG NY
KEC261 GLENS FLS NY
KEC27Ø NEW YORK NY
KEC271 NY
KEC272 HAUPPAUGE NY
KEC273 GARDEN CITY NY
KEC277 JAMAICA NY
KEC278 POUGHKEEPSIE NY
KEC279 NY
KEC28Ø STATEN ISL NY
KEC281 RICHMND HLS NY
KEC283 NEW ROCHELLE NY
KEV3ØØ MIAMI FL
KEV3Ø1 FT LAUDL FL
KEV3Ø2 W PALM BCH FL
KEV3Ø4 HOMESTEAD FL
KEV3Ø5 KEY WEST FL
KEV341 NEWPRT NWS VA
KEV36Ø RICHMND VA
KEX34Ø VA
KEX51Ø KANSAS CY MO
KEX59Ø BUFFALO NY
KEX591 ROCHESTER NY
KEX592 GENEVA NY
KEX593 JAMESTOWN NY
KEX595 NIAGARA FLS NY
KEX6ØØ NEW HAVEN CT
KEX6Ø1 CT
KEX6Ø2 CT
KEX6Ø3 CT
KEX6Ø4 CT
KEX6Ø5 CT
KEX6Ø6 CT
KEX6Ø7 CT
KEX62Ø NEWARK NJ
KEX621 PATERSON NJ
KEX622 PISCATAWAY NJ
KEX623 TRENTON NJ
KEX624 CAMDEN NJ
KEX625 SEA GIRT NJ(?)
KEX626 RED BANK NJ
KEX628 HACKENSACK NJ
KEX64Ø PHILADELPHIA PA
KEX641 HARRISBURG PA
KEX643 SCRANTON PA
KEX644 WILKES-BARRE PA
KEX645 ALLENTOWN PA
KEX648 LANSDALE PA
KEX65Ø NEWTOWN SQ PA
KEX651 WILLIAMSPORT PA
KEX652 STATE COLL PA
KEX68Ø SAN DIEGO CA
KEX69Ø SAN DIEGO CA
KEX693 OCEANSIDE CA
KEX694 EL CENTRO CA
KEX7ØØ PHOENIX AZ
KEX7Ø1 TUCSON AZ
KEX7Ø2 SAFFORD AZ
KEX7Ø3 NOGALES AZ
KEX7Ø4 MESA AZ
KEX7Ø6 YUMA AZ
KEX74Ø CLEVELAND OH
KEX741 AKRON OH
KEX742 TOLEDO OH
KEX743 YOUNGSTOWN OH
KEX744 PAINESVL OH
KEX75Ø SANDUSKY OH
KEX76Ø DETROIT MI
KEX762 FLINT MI
KEX763 MONROE MI
KEX764 BAY CY MI
KEX767 MARQUETTE MI
KEX768 S STE MARIE MI
KEX77Ø S STE MARIE MI
KEX772 TRAVERSE MI
KEX78Ø INDIANAPOLIS IN
KEX844 DEL RIO TX
KEX845 LAREDO TX
KEX846 MC ALLEN TX
KEX847 BROWNSVL TX
KEX958 VERMONT IL
KFC99Ø SAN FRANCISCO CA
KFP959 SAN ANGELO TX
KIE32Ø LEXINGTON KY
KIE34Ø MOBILE AL
KKF9ØØ ALBUQUERQUE NM

KKF905 LAS CRUCES NM
KKF909 ALAMOGORDO NM
KK7910 DEMING NM
KKF920 EL PASO TX
KKF928 CORPS CHRSTI TX
KMC250 LOS ANGELES CA
KMC251 RIVERSIDE CA
KMC252 CA
KMC253 SANTA ANA CA
KMC254 LONG BEACH CA
KMC255 VAN NUYS CA
KMC266 COVINA CA
KMC268 PALM SPRGS CA
KMC270 INDIO CA
KOD200 BUTTE MT
KOD207 GR FALLS MT
KOD208 CR D ALENE ID
KOD209 GLASGOW MT
KOD210 KALISPELL MT
KOD220 SEATTLE WA
KOD222 BREMERTON WA
KOD223 BELLINGHAM WA
KOD224 SPOKANE WA
KOD232 WENATCHEE WA
KQC391 DAYTON OH
KSC210 CHICAGO IL
KSC220 MADISON WI
KSC221 SUPERIOR WI
KSO970 SAN FRANCISCO CA
KUA270 HONOLULU HI
KWA291 ANCHORAGE AK
WWA290 SAN JUAN PR
WWA291 CRL AMALIE VI
WWA292 FAJARDO PR
WWA293 PONCE PR
WWA294 AGUADILLA PR
"BILLY" SEE KEX651
"BUCK" SEE KEX644
"CAPITOL" SEE KEX641
"CENTRAL" SEE KEX640
"ELK" SEE KEX643
"LION" SEE KEX652
"NORTH" SEE KEX648
"ROAMER" SEE KEX645
"WEST" SEE KEX650
"M-10" SEE KEC271
"M-11" SEE KEC271
"R-H" SEE KEC281
"ZEBRA" MOBILES KEC272

FEDERAL COMMUNICATIONS COMMISSION

BR3 LINDEN HALL
C2 KAA459 KANSAS CITY MO
CN3 AMBROSE NY
CY1 SUNLAND
D7 ANCHORAGE OFC AK
F1 KEE468 BUFFALO NY
F7 KIA691 NORFOLK VA
FK7 ANCHORAGE MON AK
G5 KSA489 CHICAGO IL
GC2 LIVERMORE CA
H3 BEAUMONT TX
JD3 FAIRBANKS AK
JG8 KINGSVILLE TX
K4 SANTA ANA CA
KN5 KGA93 WASHINGTON DC
L4 KAA533 ST PAUL MN
L6 KKA919 DALLAS TX
L8 KGA363 PHILADELPHIA PA
LP9 WWQ920 SAN JUAN PR
LS8 DOUGLAS AZ
M2 KGA362 BALTIMORE MD
M4 KIA689 MIAMI FL
MC1 MOBILE AL
MJ4 KCA38 CANANDAIGUA NY
N1 KMA487 SAN FRANCISCO CA
N9 KUA209 HONOLULU HI
NF1 KIA85 FT LAUDERDALE FL
OL1 KQA62 ALLEGAN MI
P5 KIA697 TAMPA FL
PA1 PORTLAND ME
PH2 KGA91 LAUREL MD
R5 KKA922 NEW ORLEANS LA
R8 KQA488 DETROIT MI
R9 KOA487 PORTLAND OR
RA5 KUA209 HONOLULU HI
RU4 CHARL AMALIE VI
S1 KKA921 HOUSTON TX
S3 KCA404 BOSTON MA
TY3 KOA489 SEATTLE WA
U6 TV EAST
U7 TV CENTRAL
U8 TV WEST
U9 SAN DIEGO CA
V2 KIA695 SAVANNAH GA
V7 KAA530 DENVER CO
VM7 KQG56 CHILLICOTHE OH
W2 SPOKANE WA
W6 KEA469 NEW YORK NY
W19 SEARSPORT ME
XB8 EMERG LOCATIONS
Y3 KMA485 LOS ANGELES CA
Y4 SAN PEDRO CA
YO6 KIA84 POWDER SPG GA

FISH & WILDLIFE SVC

KCC600 MOOSEHORN ME
KEC660 MONTEZUMA NY
KKF605 ARANSAS TX
KKF610 LAGUNATSCOT TX
KKF611 S ANA REFUGE TX
KKF612 SAN BENITO TX
KMC600 SALTON SEA CA
N-718 AIRCRAFT (IDAHO)
N-767 AIRCRAFT
KWZE BLACK BEAR
WTDB BRANT
WTDC CRANE
WTDE TEAL
WTDF SCOTER
WTDG JOHN R MANNING
WTDH PRIBILOF
WTDI HUGH M SMITH
WTDK DAVID S JORDAN
WTDL UNDAUNTED
WTDO PREGON II
WTDT THEODORE N GILL
WTFA AUKLET
WTFD MERGANSER
WTFE MURRE
WTFG SHEARWATER
WTFH WIDGEON
WTFJ PELICAN
WTFX PHALAROPE II
WXT5893 G B HERON
WZ2002 SPEEDBOAT #11
WZ2003 GEO B KLEEZ
WZ2007 PATROL BOAT
WZ2008 PATROL BOAT
WZ2010 GRIZZLY BEAR
WZ2011 COOT
WZ2013 HERON
WZ2016 SPEEDBOAT 10
WZ2017 RORQUAL
WZ2019 GEO M BOWERS
WZ2022 OREGON
WZ2023 JOHN N COBB
WZ2024 ALASKA
WZ2025 DELAWARE II
WZ2027 FWS-905
WZ2028 FWS-1451
WZ2029 FWS-19
WZ2030 FWS-1450
WZ2031 FWS-20
WZ2032 CANVASBACK
WZ2056 RANGER III

GEN SVCS ADMIN

KCA762 KANSAS CY MO

INT'L BOUNDARY & WATER COMMISSION (US/MEXICO)

KAN893 EL PASO TX
KAN894 CABALLO NM
KAN895 BORREGO TX
KAP333 ANZALDUAS DAM TX
KCT286 ZAPATA TX
KCT287 AMISTAD DAM TX
KCT288 AMISTAD DAM TX
KCT289 COMSTOCK TX
KCT290 YUMA AZ
KDE601 EL PASO TX
KDE602 CANUTILLO TX
KDE603 HARLINGEN TX
KDE604 ANZALDUAS DAM TX
KDE605 RIO GRANDE CY TX
KDE606 ROMA TX
KDE607 PRESIDIO TX
KDE608 LAS CRUCES NM
KDE609 HATCH NM
KDE610 LOS EBANOS TX
KDE611 HAYNER NM
KDE612 LEASBURG NM
KDE613 FT HANCOCK NM
KDE614 AMISTAD DAM TX
KKE912 FALCON DAM TX
KKI871 HARLINGEN TX
KKP24 EL PASO TX
KKP25 FALCON DAM TX
KKP26 AMISTAD DAM TX
KKP27 HARLINGEN TX
KC2390 MOBILES

IMMIGRATION & NAT (INCL BORDER PATROL)

KAD200 WASH DC
KAD210 RICHMOND VA
KAD220 MIAMI FL
KAD221 TAMPA FL
KAD252 ST JOHN VI
KAD254 CHRISTNST VI
KAD256 PLAYA DE PONCE PR
KAD258 SAN JUAN PR
KAD259 CH AMALIE VI
KAD260 NEW ORLEANS LA
KAD261 MOBILE AL
KAD262 PENSACOLA FL
KAD263 LAKE CHAS LA
KAD264 BATON ROUGE LA
KAD265 GULFPORT MS
KAD600 NEW YORK NY
KAD616 VAN BUREN ME
KAD620 HOULTON ME
KAD622 CALAIS ME
KAD624 VAN BUREN ME
KAD626 JACKMAN ME
KAD640 ST ALBANS VT
KAD641 ROUSES PNT NY
KAD644 DERBY LINE VT
KAD646 CONNECTICUT NH
KAD650 BURLINGTON VT
KAD660 OGDENSBURG NY
KAD667 WATERTOWN NY
KAD680 BUFFALO NY
KAK700 DETROIT MI
KAK701 TRENTON MI
KAK702 PT HURON MI
KAK703 SLT STE MARIE MI
KAK705 PT HURON KI
KAK720 GR FORKS ND
KAK721 INT'L FLS MN
KAK722 PEMBINA ND
KAK723 PORTAL ND
KAK724 PINE CRK MN
KAK725 NOYES MN
KAK730 ST PAUL MN
KAK739 CHICAGO IL
KAK740 HAVRE MT
KAK741 SWEETGRASS MT
KAK742 OPHEIM MT
KAK751 WOLF PT MT
KAK760 SPOKANE WA
KAK761 BONNERS FY ID
KAK762 KETTLE FLS WA
KAK780 BLAINE WA
KAK782 SEATTLE WA
KAK783 LYNDEN WA
KAK786 LYNDEN WA
KAK800 LIVERMORE CA
KAK820 CHULA VISTA CA
KAK821 LOS ANGELES CA
KAK822 SAN CLEMENTE CA
KAK823 TEMECULA CA

KAK827 IMPERIAL BCH CA
KAK83Ø SAN PEDRO CA
KAK832 OXNARD CA
KAK84Ø EL CENTRO CA
KAK841 CALEXICO CA
KAK842 INDIO CA
KAK847 RIVERSIDE CA
KAK85Ø YUMA AZ
KAK86Ø TUCSON AZ
KAK865 NOGALES AZ
KAK866 DOUGLAS AZ
KAK872 LOCHIEL AZ
KAK88Ø EL PASO TX
KAK885 COLUMBUS NM
KAK899 EL PASO TX
KAK9ØØ MARFA TX
KAK9Ø4 PRESIDIO TX
KAK92Ø DEL RIO TX
KAK922 SONORA TX
KAK94Ø LAREDO TX
KAK941 SAN ANTONIO TX
KAK96Ø MC ALLEN TX
KAK961 RIO GRANDE TX
KAK963 HIDALGO TX
KAK964 MERCEDES TX
KAK98Ø BROWNSVLLE TX
N4335Z AIRCRAFT
N4382Z AIRCRAFT

NASA
THE ERL (VESSEL)

NAT'L BUR STDS

KGD29 STERLING VA

NATIONAL PARK SVC

KAC7ØØ CASA VERDE NP CO
KAC715 ROCKY MT NP CO
KAC725 SHADOW MT NRA CO
KAC735 BLACK CANYON CO
KAC74Ø WIND CAVE NP SD
KAC741 DEVILS TRL NMON WY
KAC744 BADLANDS NMON SD
KAC745 RAPID CITY SD
KAC75Ø JEWEL CAVE NMON SD
KAC751 MT RUSHMORE SD
KAF2Ø COLORADO NMON CO
KAF21 GT SAND DUNES CO
KBA FT JEFFERSON NMON FL
KIE784 PINE ISL FL
KIE785 PR WILLIAM FOR VA
KKF3ØØ ALBUQUERQUE NM
KKF3Ø1 ESCALANTE UT
KKF3Ø2 ESCALANTE RVR UT
KKF7ØØ EL MORRO NMON NM
KKF7Ø5 CHACO CANYN NMON NM
KKF7Ø7 BANDELIER NMON NM
KKF71Ø BIG BEND NP TX
KKF724 CARLSBAD CVRNS NM
KKF733 YARBORO TX
KKH2Ø SANTA FE NM
KKH21 AZTEC RUINS NMON NM
KKH22 CAPULIN MT NMON NM
KKH23 GRAN QUIVIRA NMON NM
KKH24 WHITE SANDS NMON NM
KMC7ØØ LASSEN VOLC NP CA
KMC71Ø LAVA BEDS NMON CA
KMC715 YOSEMITE NP CA
KMC735 KINGS CANYN NP CA
KMC736 SEQUOIA NP CA
KMC785 DEATH VLY NP CA
KOC5Ø5 PHOENIX AZ
KOC51Ø PORTLAND OR
KOC525 YAKIMA WA
KOC545 HOQUAIM WA
KOC55Ø EVERETT WA
KOC555 WARM SPGS OR
KOC7ØØ MAMMOUTH WY
KOC725 GR CANYON NP AZ
KOC726 GR CANYON NP AZ
KOC735 CRATER LK OR
KOC74Ø OREGON CAVES OR
KOC77Ø ZION NP UT
KOC771 CEDAR BREAKS NMON UT
KOC785 BRYCE CANYN NP UT
KOC83Ø FT PECK MT
KOD3ØØ HOLBROOK AZ
KOD57Ø COLVILLE RSV WA
KOD59Ø UMATILLA OR
KOD715 MT RANIER NP WA
KOD73Ø OLYMPIC NP WA
KOD745 SAGUARO NMON AZ
KOD749 OLYMPIC NP WA
KOD755 BOULDER CY NV
KOD76Ø LEHMAN CVS NMON AZ
KOD78Ø CAPTL REEF NMON UT
KOD789 CHIRICAHUA NMON AZ
KOD791 WALNUT CNYN NMON AZ
KOD792 WUPATKI NMON AZ
KOD793 DEWEY DAM KY
KOE7ØØ ORGAN PIPE CTUS AZ
KOE7Ø4 NAVAJO NMON AZ
KOE7Ø6 GR COULEE DAM WA
KOE716 SUNSET CRTR NMON AZ
KOE717 TIMPANOGOS NMON UT
KOE72Ø GLACIER NP MT
KOG27 ARCHES NMON UT
KOG28 CANYN DE CHELLY AZ
KOG29 CASA GRANDE NMON AZ
KOG3Ø MONTEZUMA NMON AZ
KOG31 MONTEZUMA NMON AZ
KOG32 NAT BRIDGES NMON UT
KOG33 RAINBOW BRDG NMON UT
KOG34 TONTO NMON AZ
KOG35 TUCUMCARI NMON AZ
KOG36 TUZIGOOT NMON AZ
KOG37 PIPE SPRNG NMON AZ
KOG38 GR CANYON NMON AZ
KOI798 TUCUMCARI NMON AZ
KOJ71Ø LEHMAN CVS NMON NV
KOJ729 GRND CANYN NMON AZ
KOJ745 SAGURO NMON AZ
KOJ77Ø ZION NP UT
KOJ771 ZION NP UT
KOJ775 CEDAR BRKS NMON UT
KOJ776 BRYCE CANYN NP UT
KOJ777 TONTO NMON AZ
KOJ778 CORONADO NMON AZ
KOJ78Ø CAPITOL REEF NMON UT
KOJ781 CHIRICAHUA NMON AZ
KOJ782 WALNUT CANYN NMON AZ
KOJ783 WUPATKI NMON AZ
KOJ784 ORGAN PIPE NMON AZ
KOJ785 NAVAJO NMON AZ
KOJ787 ARCHES NMON UT
KOJ788 NATURAL BRDGS NMON UT
KOJ789 RAINBOW BRDG NMON UT
WWA369 CARIB NATL FOR PR
WZ2Ø52 RANGER (SHIP)
WZ2Ø57 TONAWANDA "
WZ2Ø59 FT JEFFERSON "
WZ2Ø6Ø J-8Ø1 "
RANGER III "
KETVIK "
TORTUGA "
N-73946 (AIRCRAFT)

NATIONAL SCI FOUNDTN
HERO (VESSEL)

NATIONAL WEATHER SERVICE
COMMUNICATIONS STATIONS
(DOES NOT INCLUDE NOAA
VHF WEATHER BROADCAST)

KAE41 ALBUQUERQUE NM
KAE42 MILTON MA
KAE44 WINSLOW AZ
KAE46 ATHENS GA
KAE49 NAPLES FL
KAE5Ø STREVELL ID
KAE51 NANTUCKET MA
KCB45 MT WASHINGTON NH
KCB46 MT WASHINGTON NH
KCB47 ALBANY NY
KCB48 MT WASHINGTON NH
KCB49 BOISE ID
KCB5Ø BURRWOOD LA
KCB53 LK CHARLES LA
KCB85 BLAIRSVILLE PA
KCB89 BLANDING UT
KCB91 BLANDING UT
KEB83 BOSTON MA
KEB86 CAPE HATTERAS NC
KEB87 CAPE HATTERAS NC
KEB88 BLANDING UT
KEB89 BLANDING UT
KEB9Ø BLANDING UT
KEB91 BLANDING UT
KGD56 BURRWOOD LA
KGD57 NEW ORLEANS LA
KGD58 ANNETTE I AK
KGD64 ATHENS GA
KGD65 SHOW LOW AZ
KGD68 NEW ORLEANS LA
KGD69 SALT LK CITY
KGD71 MISSOULA MT
KGD72 WASHINGTON DC
KGD74 GALVESTON TX
KGD79 GAMBRILL PK MD
KHB24 BILLINGS MT
KID63 OBERLIN LA
KID73 PORTLAND ME
KID74 PORTLAND ME
KID75 NANTUCKET MA
KID76 GREEN RVR UT
KID78 PLATTSBURGH NY
KID81 PLATINUM AK
KJY74 NATL HURRICANE
CNTR MIAMI FL
KKE44 WINSLOW AZ
KKE79 ELKO NV
KKE8Ø MTN VLG AK
KKE82 SALMON ID
KKE83 NORFOLK VA
KKE84 MOAB UT
KKE85 CORPS CHRIST TX
KKE86 PT ALEXNDR AK
KKE87 TATOOSH I WA
KKE88 ASTORIA OR
KME57 PORTLAND OR
KME6Ø WASH DC
KOE2Ø BOISE ID
KOE21 GR JUNCTN CO
KOE22 ROOSEVELT UT
KOE26 NEW ORLEANS LA
KOE27 ANCHORAGE AK
KOE28 BARROW AK
KOE29 BOSTON MA
KOE3Ø ST PAUL I AK
KQC48 POCATELLO ID
KSC43 GR JUNCTION CO
KSC44 KALISPELL MT
KSC46 SEATTLE WA
KUP54 OWYHEE NV
KUP55 ALBANY NY
KUP6Ø BURRWOOD LA
KUP61 MEDFORD OR
KUP62 W YELLOWSTONE MT
KUP64 OWYHEE NV
KWO41 CAPE HENRY VA
KWO44 MAUNA LOA HI
KC62Ø9 MOBILE WX STA #1
KC621Ø WASH DC MOBILE
KC6211 HILO HI MOBILE
KC6216 BOISE ID MOBILE
KC6217 PENDLETON OR MOB
KC6218 MISSOULA MT MOB
KC6219 PORTLAND OR MOB
KC622Ø SEATTLE WA MOB
KC6222 MOBILE WX STA #2
KC6223 HILO HI MOBILE

NOAA VESSELS & MOBILES

KJLM MURRE II R-663 AK
KNBD DELAWARE II R-445 NJ
KNBG GEO B KELEZ R-441 VA
KNBH OREGON R-551 AK
WMVC JOHN N COBB R-552 WA
WMVF ALBATROSS IV R-342 MA
WTAV VA KEY R-68Ø FL
WTDA CHAS A GILBERT
WTDD EIDER

WTDF TOWNSEND CROWELL R-443 HI
WTDK D S JORDAN R-444 CA
WTDL CHAPMAN R-446 WA
WTDM MILLER FREEMAN R-223 WA
WTDO OREGON II R-332 MS
WTEA DISCOVERER R-1Ø2 WA
WTEB FAIRWEATHER S-22Ø WA
WTEC BOWIE
WTED EXPLORER
WTEE MARMER
WTEF RAINIER S-221 WA
WTEG MT MITCHELL S-222 WA
WTEH LESTER JONES
WTEI HYDROGRAPHER
WTEJ MCARTHUR S-33Ø WA
WTEK DAVIDSON S-331 WA
WTEM PATTON
WTEO PATHFINDER OSS-3Ø
WTEP OCEANOGRAPHER R-1Ø1 WA
WTEQ PIERCE S-328 VA
WTER RESEARCHER R-1-3 FL
WTES SURVEYOR S-132 WA
WTET RUDE S-59Ø VA
WTEW WHITING S-329 VA
WTEX HODGSON
WTEY HECK S-591 VA
WTEZ FERREL S-492 VA
WA9337 POLARIS
WZ2ØØ6 GEO CALLIO
WZ21Ø2 WATRES
WZ21Ø3 DON J MILLER
WZ21Ø9 L A DISTRICT
WZ2158 ALBATROSS IV
WZ25ØØ TO 265Ø (SMALL UNNAMED CRAFT)
WZ3388
WZ3392 (FISHER I FL)
WZ3395
KA8128 TO 8134 MOBILES
KD7986 TO 8ØØ5 MOBILES
KE82ØØ TO 8234 MOBILES
KF37ØØ TO 3746 MOBILES

PUB HEALTH SERVICE
INDIAN HOSPITALS

KOJ565 WINDOW ROCK AZ
KOJ566 SHIPROCK NM
KOJ567 TUBA CITY AZ
KOJ571 CROWNPOINT NM

TRANSPTN, DEPT OF

N-11 (AIRCRAFT)

TREASURY, DEPT OF

KSJ912 PROVIDENCE RI

US ARMY ENGINEERS

WUA BOSTON MA
WUA21 BUZZRDS BAY MA
WUA22 SANDWICH MA
WUA23 WINKS NK MA
WUB2 CAVEN PT NJ
WUB4 BALTIMORE MD
WUB21 BUZZARDS BAY MA
WUB3Ø FT LEAVNWTH KS
WUB31 ATLANT CY NJ
WUB32 EDGEMOOR DE
WUB33 C&D CANAL MD
WUB35 LITTLE ROCK AR
WUB36 FT L WOOD MO
WUB37 FT MEADE SD
WUB38 FT SNELLING MN
WUB39 FT WARREN WY
WUB48 CASERTA WY
WUB311 C&D CANAL DE
WUB333 C&D CANAL DE
WUC KEY WEST FL
WUC4 SAVANNAH GA
WUC5 JACKSONVL FL
WUC6 MOBILE AL
WUC4Ø CLARK HILL SC
WUC41 SAVANNAH GA
WUC51 MIAMI BCH FL
WUC53 CLEWISTON FL
WUC61 PANAMA CY FL
WUC62 TUSCALOOSA AL
WUC66 WALDORF DAM FL
WUC531 LK HARBOR FL
WUC532 BELLE GLADE FL
WUC533 CANAL PT FL
WUC534 MOOR HVN FL
WUC535 ORTONA FL
WUC63Ø JACKSON AL
WUC632 TOMBIGBEE RVR AL
WUC633 OLIVER DAM AL
WUC634 EUTAW AL
WUC642 PEARL R#1 LA
WUC643 PEARL R#2 LA
WUC644 PEARL R#3 LA
WUD CHICAGO IL
WUD2 BUFFALO NY
WUD3 DETROIT MI
WUD4 CHICAGO IL
WUD6 ST PAUL MN
WUD7 ROCK ISL IL
WUD21 BLK RK LK NY
WUD31 ST MARY FLS MI
WUD42 LA GRANGE IL
WUD43 PEORIA IL
WUD44 JOLIET IL
WUD45 STARVD RK DM IL
WUD61 FOUNTAIN CY WI
WUD65 UP ANTHNY DM MN
WUD66 LW ANTHNY DM MN
WUD422 OBRIEN DAM IL
WUD432 PEORIA DAM IL
WUD441 LOCKPORT IL
WUD442 BRANDON DAM IL
WUD443 DRESDEN DAM IL
WUD444 MARSEILLES DM IL
WUD6Ø1 MPLS LOCK 1 MN
WUD6Ø2 MPLS LOCK 2 MN
WUD6Ø3 MPLS LOCK 3 MN
WUD6Ø4 MPLS LOCK 4 MN
WUD6Ø5 MINNEISKA MN
WUD6Ø6 TREMPEALEAU MN
WUD6Ø7 MPLS LOCK 7 MN
WUD6Ø8 MPLS LOCK 8 MN
WUD6Ø9 MPLS LOCK 9 MN
WUD61Ø MPLS LOCK 1Ø MN
WUD615 MPLS LOCK 5A MN
WUD711 LOCK 11 IA
WUD712 LOCK 12 IA
WUD713 LOCK 13 IA
WUD714 LOCK 14 IA
WUD715 LOCK 15 IL
WUD716 LOCK 16 IA
WUD717 LOCK 17 IL
WUD718 LOCK 18 IL
WUD719 LOCK 19 IA
WUD72Ø LOCK 2Ø MO
WUD721 LOCK 21 IL
WUD722 LOCK 22 IL
WUE AKRON OH
WUE3 PITTSBGH PA
WUE4 HUNTINGTN WV
WUE5 LOUISVILLE KY
WUE31 PITTSBGH PA
WUE32 TYGART WV
WUE41 MARIETTA OH
WUE61 CHATTANOOGA TN
WUE64 KY DAM KY
WUE68 BARKLEY LOCK KY
WUE2Ø6 NEW CUMBERLND PA
WUE211 LOCK 11 WV
WUE251 GOLCONDA IL
WUE254 MARKLAND DAM KY
WUE337 PIKE ISLAND
WUE344 TIONESTA PA
WUE345 YOUGHIOGN PA
WUE361 ELIZABETH PA
WUE421 ATWOOD DAM OH
WUE423 BLUESTONE WV
WUE425 BURR OAK OH
WUE426 CHAS MILL OH
WUE428 DEL DAM OH
WUE429 DEWEY DAM KY
WUE43Ø DOVER DAM OH
WUE431 LEESVL DAM OH
WUE432 MOHAWK DAM OH
WUE436 SENACAVLLE OH
WUE442 NEW PHILA OH
WUE6Ø2 HASTINGS MN
WUE6Ø4 LOCK "E" KY
WUE613 WHEELER LOCK AL
WUE614 GUNTERSVLLE AL
WUE616 WATTS BAR LK TN
WUE617 FT LINCOLN TN
WUF2 S ST PAUL MN
WUF3 ROCK ISL IL
WUF4 ST LOUIS MO
WUF31 KEOKUK IA
WUF41 CHESTER IL
WUF42 CLARKSVL MO
WUF43 WINFIELD MO
WUF44 ALTON IL
WUG NEW ORLEANS LA
WUG2 W MEMPHIS AR
WUG3 VICKSBRG MS
WUG4 NEW ORLEANS LA
WUG21 CAIRO IL
WUG23 HELENA AR
WUG3Ø VIDALIA LA
WUG32 PINE BLUFF AR
WUG33 GREENWOOD MS
WUG4Ø SHREVEPORT LA
WUG41 ALEXANDRIA LA
WUG43 LK CHARLES LA
WUG3Ø1 LK PROVDNC LA
WUG331 MARKS MS
WUG332 YAZOO CITY MS
WUG333 SARDIS DAM MS
WUH2 FT PECK MT
WUH3 BISMARCK ND
WUH5 KANSAS CY MO
WUH43 FT RANDALL SD
WUH52 NAPOLEON MO
WUH53 GASCONADE MO
WUH24Ø SIOUX CITY IA
WUH51Ø HARLAN DAM NE
WUH53Ø GLASGOW MO
WUI DALLAS TX
WUI2 LITTLE RK AR
WUI3 TULSA OK
WUI4 GALVESTON TX
WUI5 ALBUQUERQUE NM
WUI142 CORPS CHRSTI TX
WUI151 CONCHES DM NM
WUI52 J MARTIN CO
WUI21Ø BL MTN DAM AR
WUI211 BULL SHLS AR
WUI212 CLEARWATER MO
WUI213 NIMROD DM AR
WUI214 NORFOLK DM AR
WUI31Ø CANTON OK
WUI311 DENISON TX
WUI312 FALL RIVER KS
WUI313 GORE OK
WUI314 HULAH OK
WUI315 JET OK
WUI316 OKAY OK
WUI317 FT SUPPLY OK
WUI318 WISTER OK
WUI41Ø BAY CY TX
WUI415 PT ARTHUR TX
WUI42Ø PT LAVACA TX
WUI421 BROWNSVLLE TX
WUJ KEYPORT WA
WUJ3 PORTLAND OR
WUJ4 WALLA WALLA WA
WUJ21 MUD MT DM WA
WUJ23 AGANA GUAM
WUJ33 THE DALLES OR
WUJ4Ø MCNARY LK WA
WUJ41 ICE HRBR WA
WUJ42 J DAY LOCK WA
WUJ31Ø FT STEVENS OR
WUJ312 BONNEVL DAM OR
WUK CHOLLAS HT CA
WUK2 SN FRANCISCO CA
WUK3 SACRAMENTO CA
WUK4 LOS ANGELES CA

WUK31 SACTO LK CA
WUK33 RIO VISTA CA
WUL9 MOSES LAKE WA
WUM442Ø DRG SCHWEIZER
ABBT FS-221
AEAA J B BATTLE
AEAE HUNTINGTON
AEAO STE GENEVIEVE
AEBY CHESTER HARDING
AECB COMBER
AECJ D A DAVIDSON
AEDA GOETHALS
AEEK MATT PLATT
AEEL ELIZABETH
AEEM CAILLOU
AEIC LYMAN
AEMN SAN LUIS II
AENI 2-ESB
MARION

US CUSTOMS SERVICE

KAE31Ø NEW YORK NY
KAE311 BOSTON
KAE312 MIAMI FL
KAE313 SAN JUAN PR
KAE314 SAN FRANCISCO CA
KAE315 HONOLULU HI
KAE316 KETCHIKAN AK
KAE317 SEATTLE WA
KAE318 SAN DIEGO CA
KAE319 CHICAGO IL
KAE32Ø NEW ORLEANS LA
WCW9Ø1 HOUSTON TX
WYJ9936 CF-59Ø3F
WYJ9937 CF-Ø673F
WYJ9938 CF-1559F

U S GEODETIC SURVEY

KA2XSH KAOIKI HI
KA2XRW (WESTERN STATES)
KAD5Ø TACOMA WA
KAD51 PUYALLUP WA
KAD52 DOCKBUTT WA
KAD53 TO 57 WA
KAD58 MT SHUKSN WA
KAD59 WHITE RVR WA
KAD6Ø TUMWATER MTN WA
KAH246 COLORADO
KAJ SAN JUAN PR
KAL SAN JUAN PR
KAM HOUSTON TX
KAO MENLO PK CA
KGC3ØØ RESTON VA
KGD34 BOULDER CRK WA
KKF3Ø HARTS PASS WA
KKF31 BEAVER PASS WA
KKF32 EASY PASS WA
KKF33 JASPER PASS WA
KKF34 SCRBS MDW WA
KKF35 WATSON LK WA
KKF36 HOZOMEN LK WA
KKF37 MARTIN LK WA
KKF38 TO 44 WA
KKF45 MSYRCK DAM WA
KKF46 WA
KKF47 KID VALLEY WA
KKF48 MINERAL WA
KKF49 COWLITZ RVR WA
KKF3Ø2 MORGAN CY LA
KKF3Ø3 CAMERON LA
KKF3Ø4 VENICE LA
KKF31Ø GARRETSON SD
KKF311 MIDWAY LA
KKF313 CAMERON LA
KKF314 LK CHAS LA
KKF315 COCODRIE LA
KKF317 FREEPORT TX
KKF318 PT BOLIVAR TX
KKF319 GULF OF MEXICO
KKF331 VENICE LA
KKF332 GULF OF MEXICO
KKF333 MATAGORDA TX
KKF334 MENLO PK CA
KKF335 TAMPA BAY FL
KMC31Ø MAUNAKEA HI
KMC311 KILAUEA HI
KME77Ø NAALEHU HI
KML76 HAYWARD CA
KML2Ø SAN ANDRES CA
KNN91 SEATTLE WA
KNN92 SEATTLE WA
KNO98 BOWFOW MTN WA
KO2XCH WA
KOC83 WA
KOD3ØØ TACOMA WA
KOD3Ø1 SANNCLSI CA
KOD3Ø2 LACAMBR PK CA
KOD3Ø3 SADDLE PK CA
KOD3Ø4 VENTURA CA
KOG21 TACOMA WA
KOJ3Ø2 DENVER CO
KOJ3Ø3 SUNNYSIDE UT
KOJ3Ø4 PSTR CNYN UT
KOJ3Ø5 (PORTABLE)
KOJ3Ø6 BOWMAN SC
KOJ3Ø7 NTNLSPCT MS
KOJ3Ø8 HUDSON CO
KOJ3Ø9 MT ALDEN AZ
KOJ31Ø GULF OF MEXICO
KOJ311 GULF OF MEXICO
KOJ314 TO 321 AK
KOJ323 NTNLSPCT MS
KOJ324 NTNLSPCT MS
KOJ325 BRUNSWICK GA
KOJ329 MOOSE RIDGE ID
KWA3ØØ LONELY AK
KWA3Ø1 OLIKTOK AK
KWA3Ø2 SITE 1 AK
KWA3Ø3 SITE 2 AK
KWA3Ø4 SITE 3 AK
KWA3Ø5 SITE 4 AK
KWA3Ø6 SITE 5 AK
KWA3Ø7 SITE 6 AK
KWA3Ø8 SITE 7 AK
KWA3Ø9 SIMPSON AK
KWA315 HOUMA LA
KWA316 COCODRIE LA
KWA35Ø FAIRBANKS AK
KWA351 ANCHORAGE AK
KWG54 NOME AK
KWI22 GULKANA AK
KWI24 WOLVERINE AK
KWI54 ALBUQUERQUE NM
KXA2 ANCHORAGE AK
KXA3 FAIRBANKS AK
WXB22 MCLAUCHLINN CA
WXB98 RCRDBRSL SC
WXO58 MAYFIELD WA
WXO59 LAGRANDE WA
WXO6Ø DEADHORSE AK
MOBILES
KA8672 TO 8681
KA8821 TO 8876
KF7531 TO 7556

US MARSHAL

KFQ386 PHOENIX AZ
KLP2Ø7 BRIDGEPORT CT
KRD243
KRD247 NEW YORK NY
KRD249 SAN FRANCISCO CA
KRD667 PITTSBURGH PA
KRD675 PHILA PA
KRD686 HOUSTON TX
KRD691
KRD696 CHARLESTON WV
WRA7493 VESSEL

U S NAVY VESSELS
(OTHER THAN FLEET
& AUXILIARY SHIPS)

KFUF CURB
KSIP GEAR
WHBA ROBT D CONRAD
WVJB CABLE

LYBI

U.S. NAVY BASE, NEW LONDO

THIS WILL CONFIRM YOUR RECEPT.
RADIO STATION LYBI ON 2252
Ø252 GMT ON C.W. Jan. 3
POWER: WATTS. TRANSMITTER:
REMARKS: Letter on its way unde

SIGNED:

NS5AK

UNITED STATES COAST GUARD AUXILIARY
SHIP: KATHY-TOO

THIS WILL CONFIRM YOUR RECEPTION OF
RADIO STATION NS5AK ON 2670 KCS. AT
2335Z GMT ON 28 July 1957
POWER 65 WATTS, ANTENNA: Windom
REMARKS—

signed M S Wehle

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ABOUT THE AUTHOR

Tom Kneitel is one of the most prolific and influential authors in the field of electronics and communications, and since 1956 his by-line has appeared on hundreds of features and columns in publications such as *Popular Electronics, Electronics Illustrated, Space Age, TV Guide, CQ Magazine, Elementary Electronics, Science and Mechanics*, to name a few. He's also the author of a major portion of the section about Communications in the current edition of *the Encyclopedia Americana*, in addition to many books on subjects such as antennas, electronics construction projects, single sideband, conversions of surplus military electronics equipment, as well as scanner frequency data books. In Tom's credits are a lengthy string of training films written for the U.S. Army Signal Corps. Tom is the Editorial Director of *S9/Hobby Radio Magazine*.

In addition to Tom's writing activities, he is in high demand as a consultant and systems designer in the field of communications, specializing in systems dealing with monitoring and electronic intercepts, intelligence gathering, surveillance, security and 2-way systems used for undercover and tactical purposes.

Tom's hobby interests cover scanners as well as monitoring VHF and SW frequencies, with special emphasis devoted to radio astronomy projects. On the VHF/UHF Amateur bands Tom is active as K2AES (ex-KS4CH, W5KDR, K3FLL); he's also licensed as KM-4973 in the Aeronautical Radio Service. He is Registered Monitor KNY2AB.

Memberships include the *Independent Space Research Group* (endeavoring to build an earth-orbiting astronomy satellite whose images will be able to be picked up by Amateur slow-scan TV operators worldwide), *The Planetary Society, The SSB Network* (SSB-13), *The Aircraft Owners & Pilots Association* (AOPA #722656), and several monitoring organizations including the *Radio Communications Monitoring Association* (RCMA #NY-154).

Tom is listed in *who's Who In America* and *Who's Who In The World.*

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